

PN-AAT-177

VOLUME **1**

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Primary
Three PUPIL
BOOK

A.I.D.
Reference Center
Room 1856 NS

Preliminary
Edition

MATHEMATICS

Prepared
at the
1964 Entebbe Mathematics Workshop

EDUCATIONAL SERVICES INCORPORATED
Watertown, Massachusetts, U.S.A.

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Published
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The 1964 Entebbe Mathematics Workshop was directed by Professor W. T. Martin of the Massachusetts Institute of Technology, Cambridge, Massachusetts, Mr. John Oyelese of the University of Ibadan, Ibadan, Western Nigeria, and Professor Donald E. Richmond of Williams College, Williamstown, Massachusetts.

The books for teachers and pupils of Primary Three Mathematics were written at Entebbe by the following:

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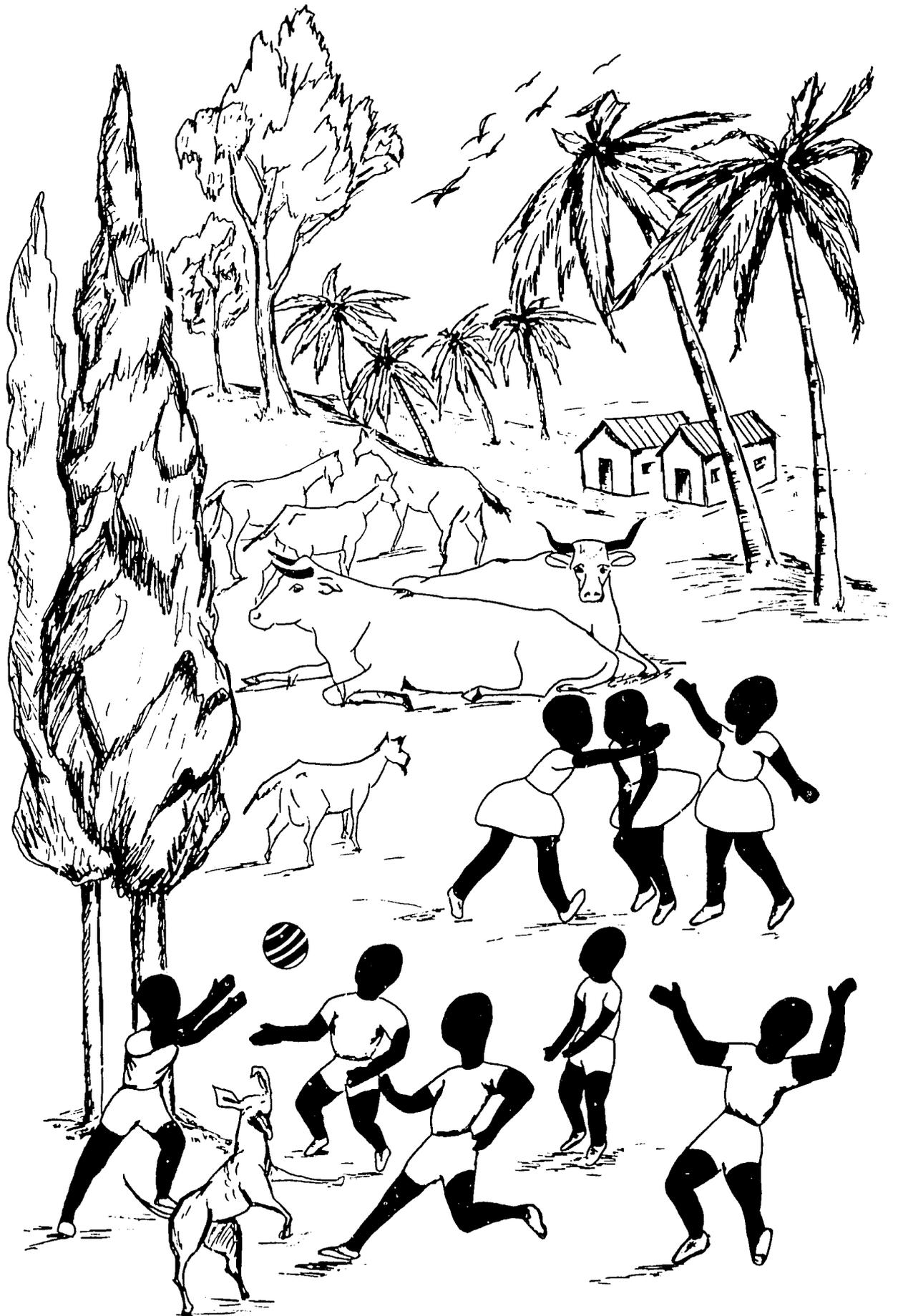
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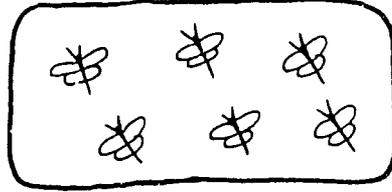
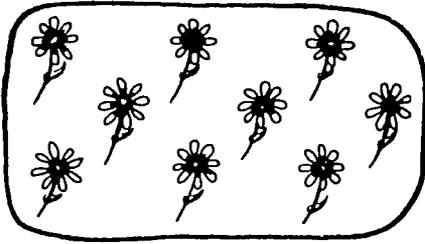
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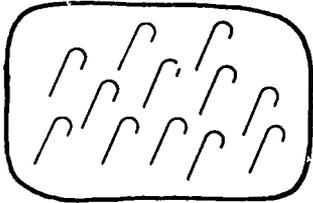
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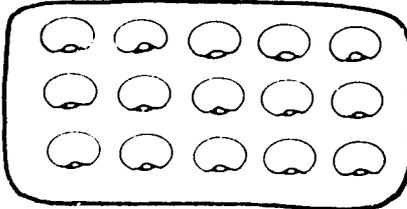
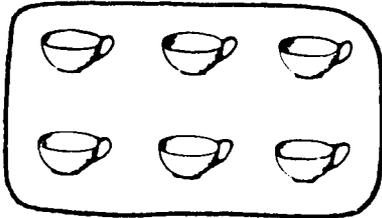
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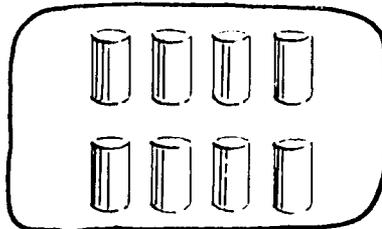
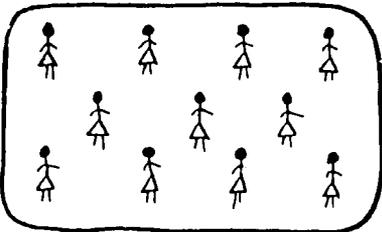
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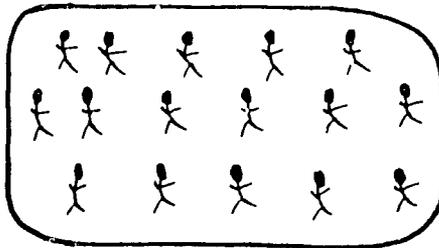
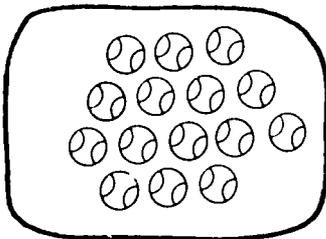
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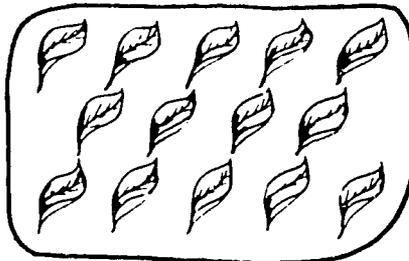
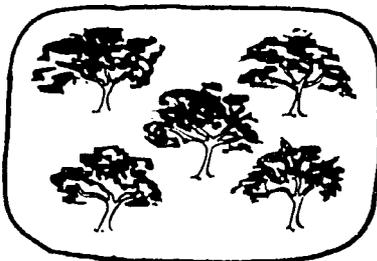
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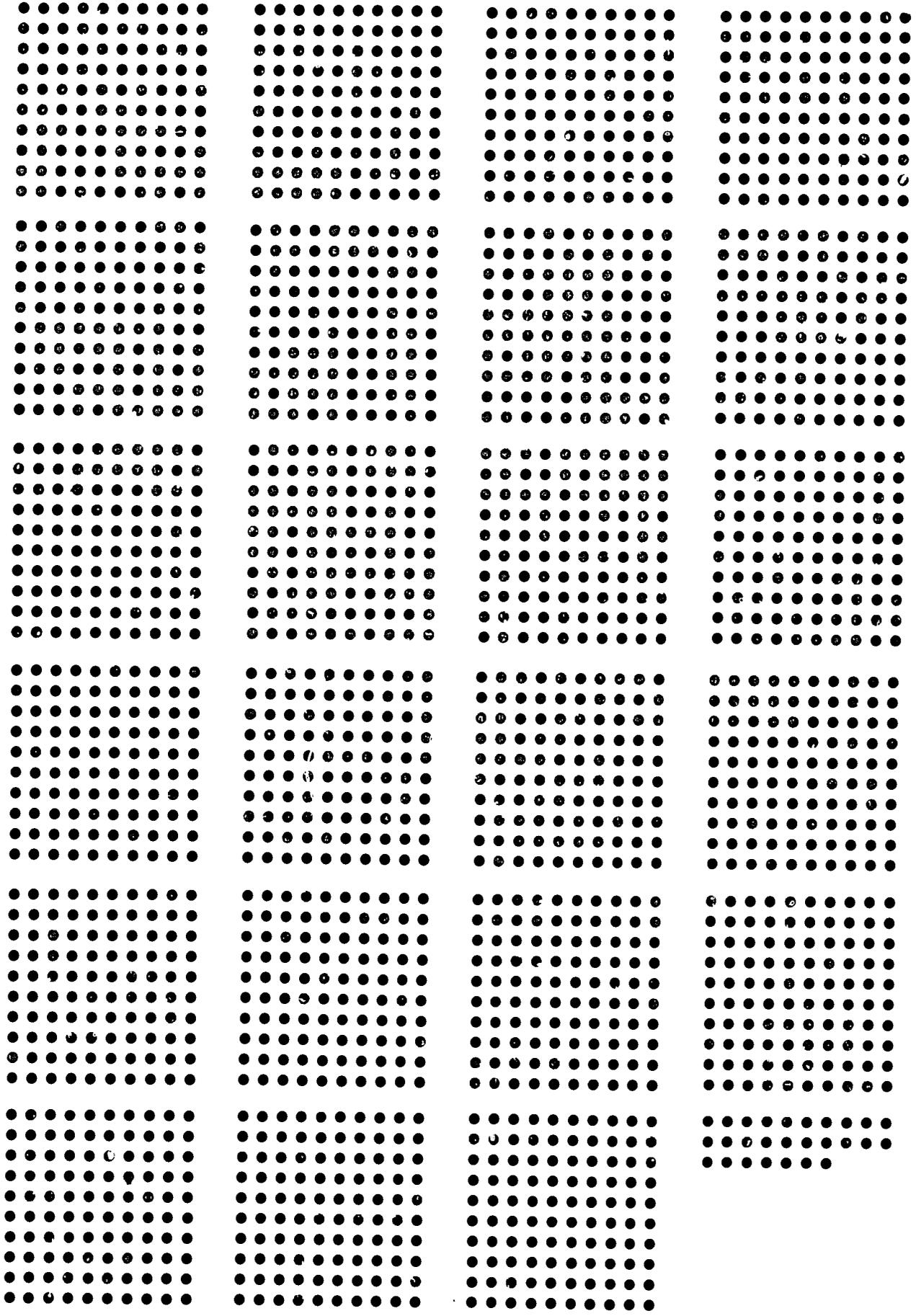
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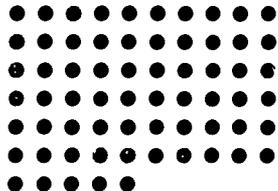
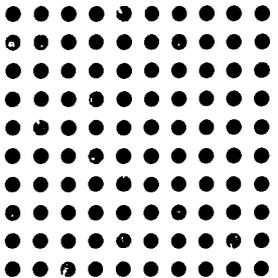
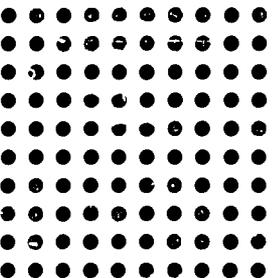
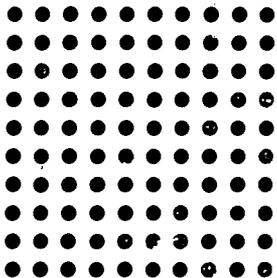
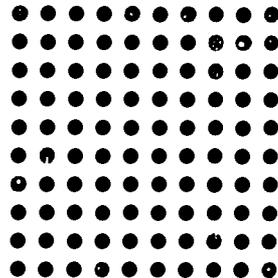
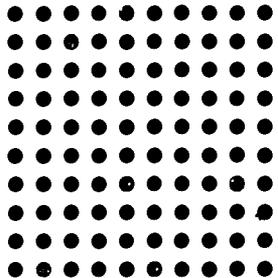
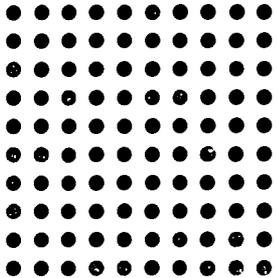
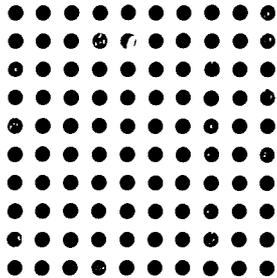
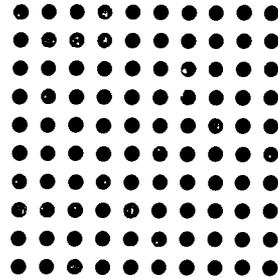
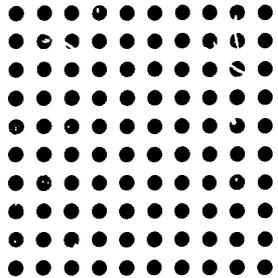
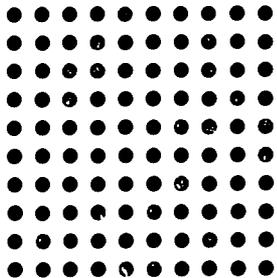
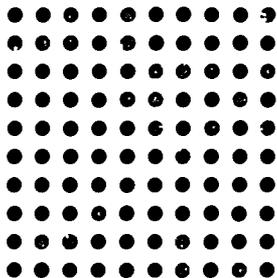
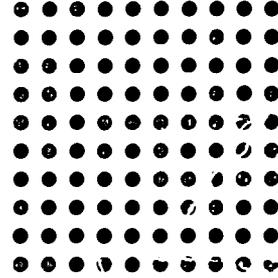
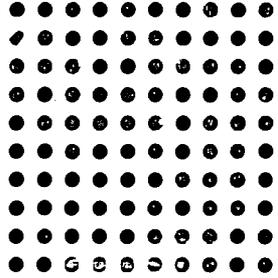
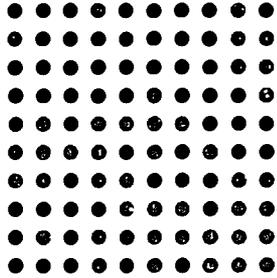
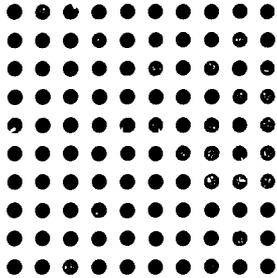
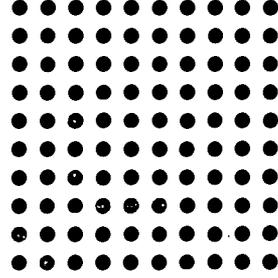
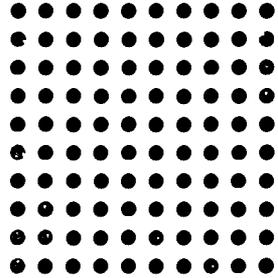
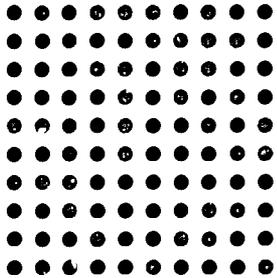
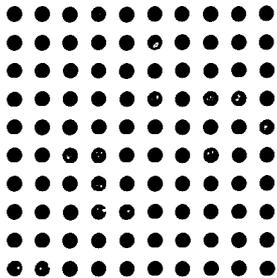
How many hundreds, tens and ones ?	Hundreds	Tens	Ones
5 hundreds, 7 tens, and 2 ones is			
3 hundreds, 2 tens, and 5 ones is			
6 hundreds, 0 tens, and 3 ones is			
5 hundreds, 4 tens, and 0 ones is			
400 and 70 and 2 is			
700 and 0 and 5 is			
200 and 90 and 0 is			
800 and 0 and 0 is			

315 is _____ hundreds, _____ ten and _____ ones.
 407 is _____ hundreds, _____ tens and _____ ones.
 960 is _____ hundreds, _____ tens and _____ ones.
 458 is _____ hundreds, _____ tens and _____ ones.
 600 is _____ hundreds, _____ tens and _____ ones.
 732 is _____ hundreds, _____ tens and _____ ones.
 510 is _____ hundreds, _____ ten and _____ ones.

23 tens is _____ hundreds and _____ tens.
 89 tens is _____ hundreds and _____ tens.
 20 tens is _____ hundreds and _____ tens.
 38 tens is _____ hundreds and _____ tens.

2 hundreds and 7 tens is _____ tens.
 5 hundreds and 0 tens is _____ tens.
 9 hundreds and 9 tens is _____ tens.
 1 hundred and 12 tens is _____ tens.
 14 hundreds and 6 tens is _____ tens.





How many thousands, hundreds, tens and ones?	Thousands	Hundreds	Tens	Ones
3 thousands, 5 hundreds, 2 tens and 6 ones is				
4 thousands, 2 hundreds, 0 tens and 7 ones is				
2 thousands, 0 hundreds, 8 tens and 9 ones is				
1 thousand, 0 hundreds, 3 tens and 0 ones is				
6 thousands, 0 hundreds, 0 tens and 0 ones is				
7000 and 600 and 80 and 5 is				
1000 and 0 and 20 and 9 is				
3000 and 300 and 30 and 3 is				
2000 and 900 and 10 and 0 is				
9000 and 200 and 0 and 8 is				
1362 is _____ thousand, _____ hundreds, _____ tens and _____ ones.				
2307 is _____ thousands, _____ hundreds, _____ tens and _____ ones.				
1999 is _____ thousand, _____ hundreds, _____ tens and _____ ones.				
4026 is _____ thousands, _____ hundreds, _____ tens and _____ ones.				
1002 is _____ thousand, _____ hundreds, _____ tens and _____ ones.				
3000 is _____ thousands, _____ hundreds, _____ tens and _____ ones.				
23 hundreds is _____ thousands and _____ hundreds.				
41 hundreds is _____ thousands and _____ hundred.				
109 tens is _____ thousands, _____ hundreds and _____ tens.				
413 tens is _____ thousands, _____ hundred and _____ tens.				
2 thousands and 4 hundreds is _____ hundreds.				
1 thousand and 8 hundreds is _____ hundreds.				
2 thousands, 4 hundreds and 0 tens is _____ tens.				
5 thousands, 2 hundreds and 6 tens is _____ tens.				

Find names for 75.

Find names for 24.

Find names for 144.

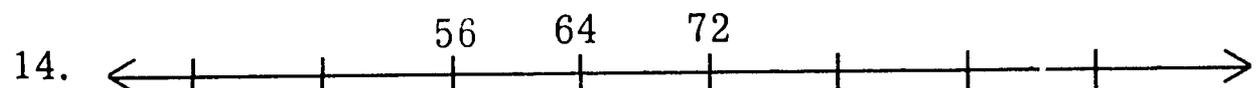
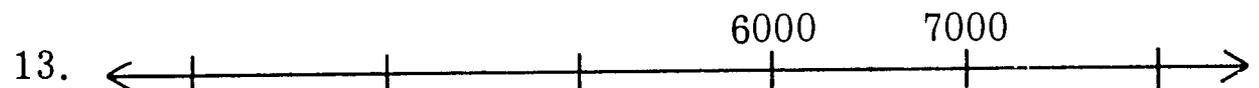
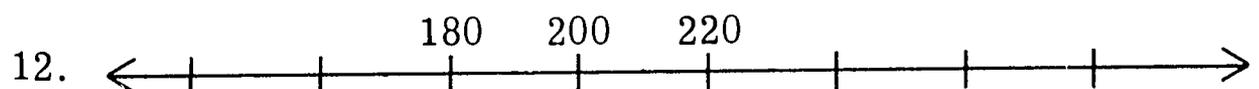
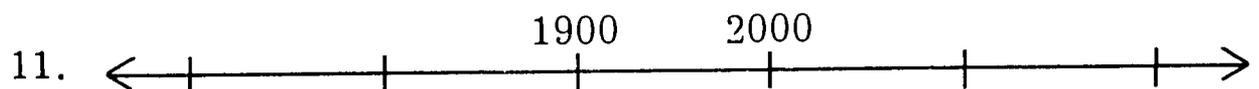
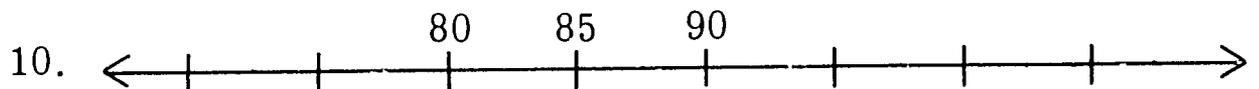
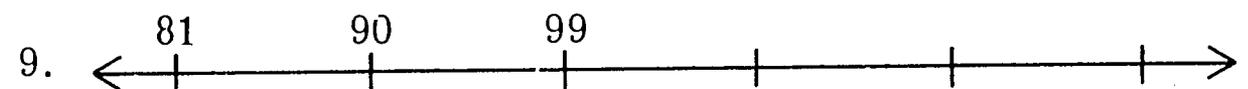
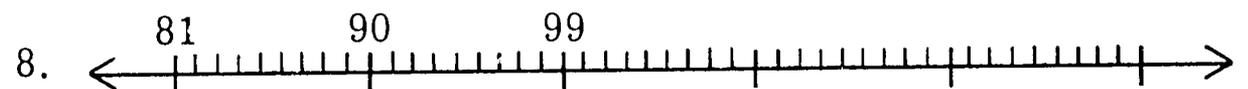
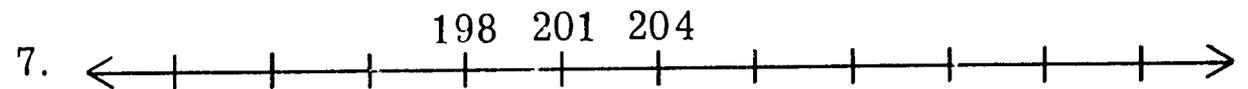
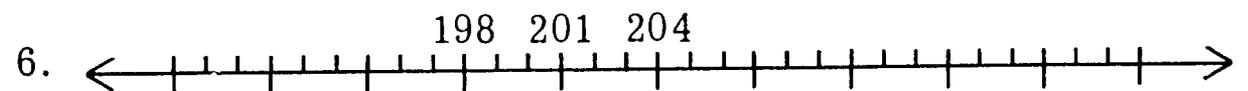
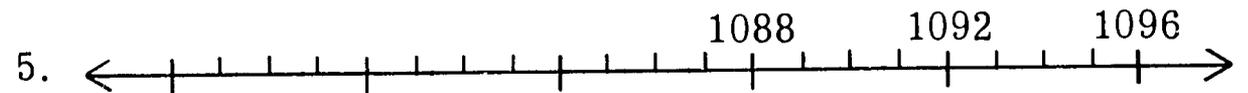
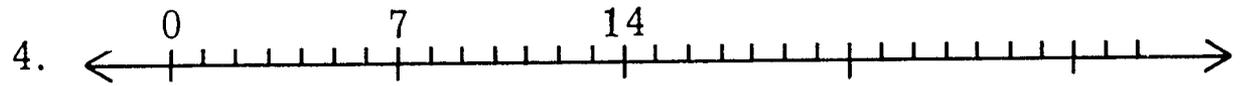
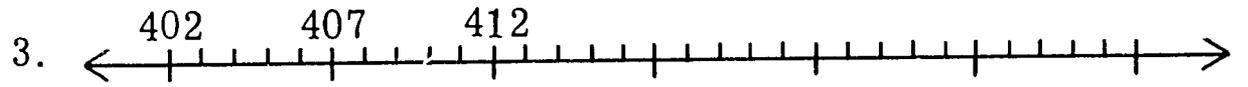
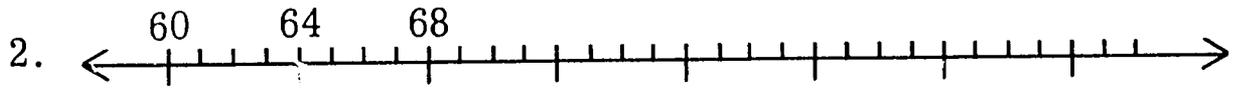
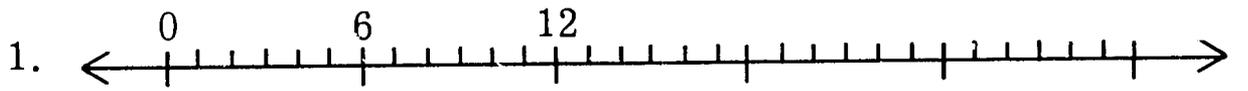
Find names for 520.

Find names for 1250.

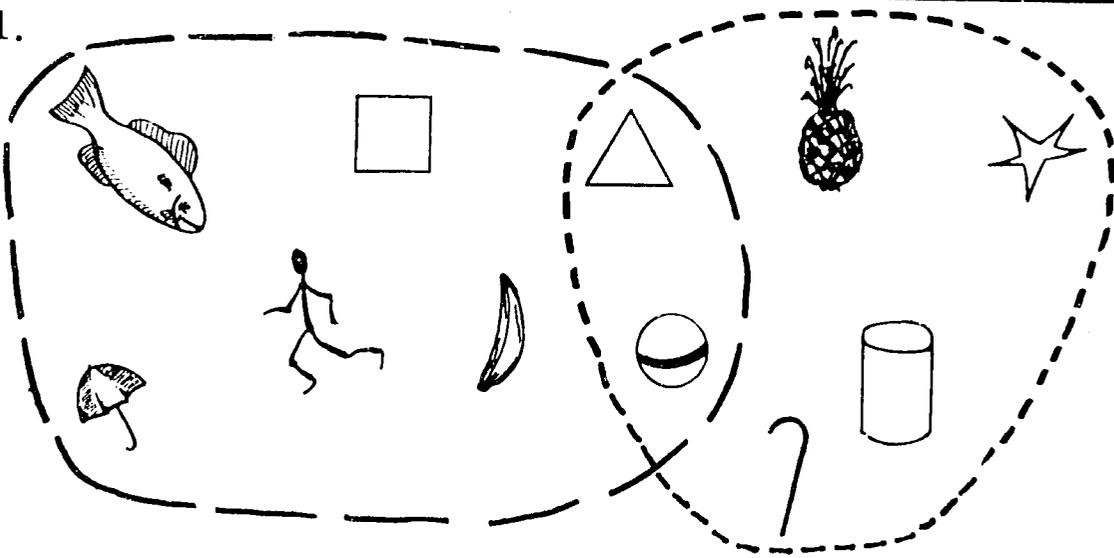
- | | |
|----------------------|-----------------------------------|
| 1. $60 + 10 + 5$ | 20. $50 + 20 + 5$ |
| 2. $20 + 4$ | 21. $18 + 6$ |
| 3. $90 + 50 + 4$ | 22. 260×2 |
| 4. $500 + 20 + 0$ | 23. $100 + 40 + 4$ |
| 5. $1050 + 200$ | 24. $600 - 80$ |
| 6. $70 + 5$ | 25. $1000 + 250$ |
| 7. 25×3 | 26. $50 + 14$ |
| 8. $100 + 44$ | 27. $15 + 9$ |
| 9. 4×6 | 28. $90 - 15$ |
| 10. $260 + 260$ | 29. $(2 \times 6) + (2 \times 6)$ |
| 11. $625 + 600 + 25$ | 30. $1000 + 200 + 50$ |
| 12. $1280 - 30$ | 31. $25 + 25 + 25$ |
| 13. $12 + 6 + 6$ | 32. $35 - 11$ |
| 14. $30 + 5 + 40$ | 33. $60 + 15$ |
| 15. $12 + 10 + 2$ | 34. $200 + 200 + 120$ |
| 16. $50 + 50 + 44$ | 35. $5 + 9 + 10$ |
| 17. $300 + 220$ | 36. $100 + 50 + 44$ |
| 18. $200 + 300 + 20$ | 37. $50 + 10 + 14$ |
| 19. $35 + 20 + 20$ | 38. $(100 + 20) + (4 \times 6)$ |

Expanded Form of a Numeral

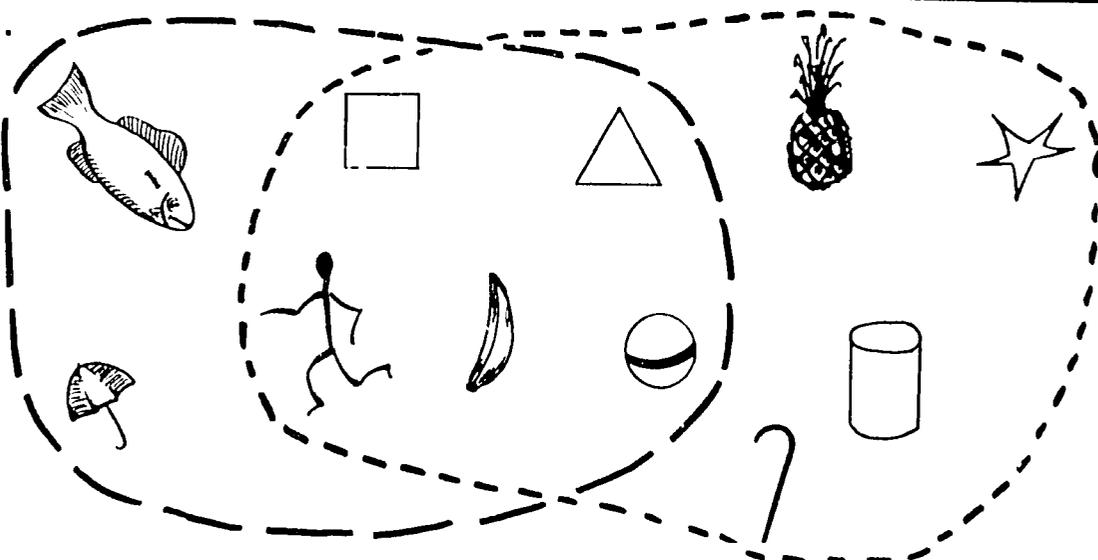
1. 1304 = 1000 + 300 + 0 + 4
2. 702 = _____
3. 4208 = _____
4. 2275 = _____
5. 82 = _____
6. 5004 = _____
7. 6020 = _____
8. 311 = _____
9. 8000 = _____
10. 6270 = _____
11. 1111 = _____
12. 4700 = _____
13. 2789 = 2000 + 700 + 80 + 9
14. _____ = 5000 + 0 + 70 + 2
15. _____ = 1000 + 200 + 30 + 4
16. _____ = 6000 + 0 + 0 + 5
17. _____ = 7000 + 800 + 10 + 0
18. _____ = 400 + 50 + 3
19. _____ = 4000 + 200 + 70 + 9
20. _____ = 3000 + 0 + 50 + 0
21. _____ = 2000 + 0 + 0 + 0
22. _____ = 9000 + 900 + 90 + 9
23. _____ = 80 + 7
24. _____ = 6000 + 800 + 60 + 2



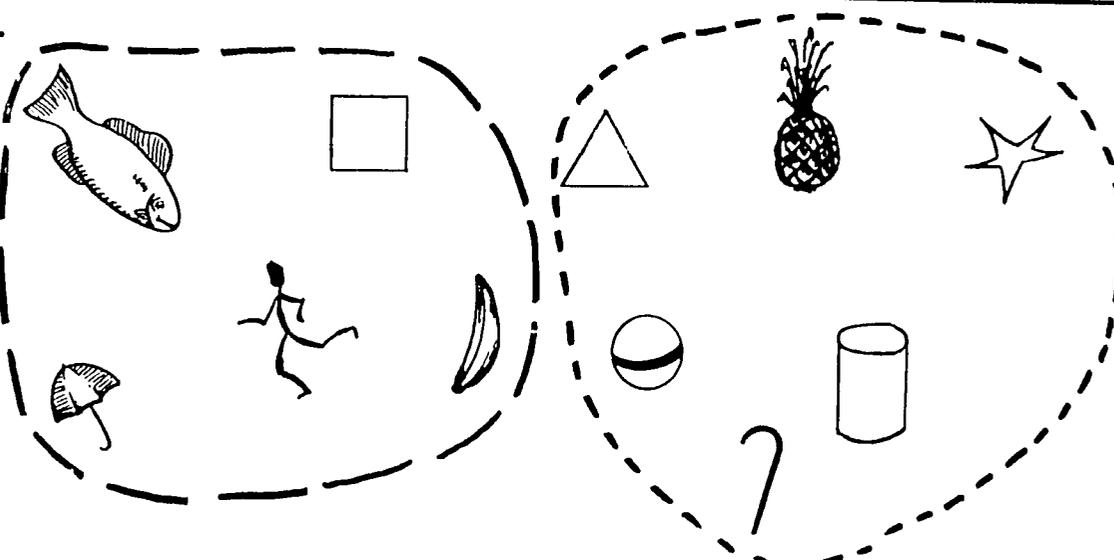
1.



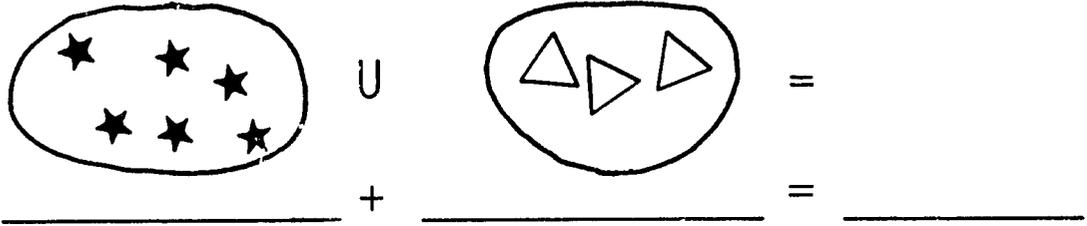
2.



3.



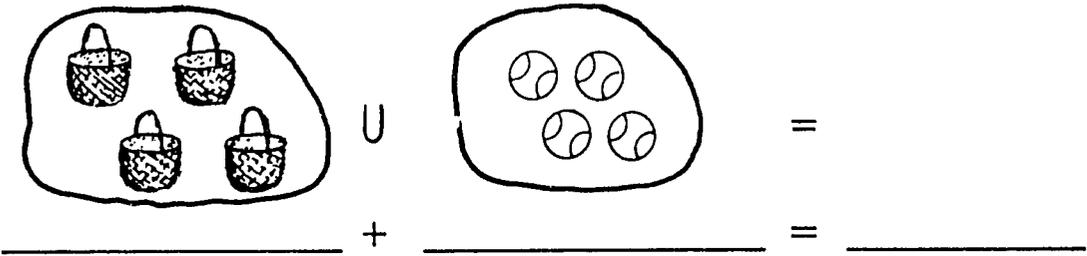
1.



The addends are _____ and _____.

The sum is _____.

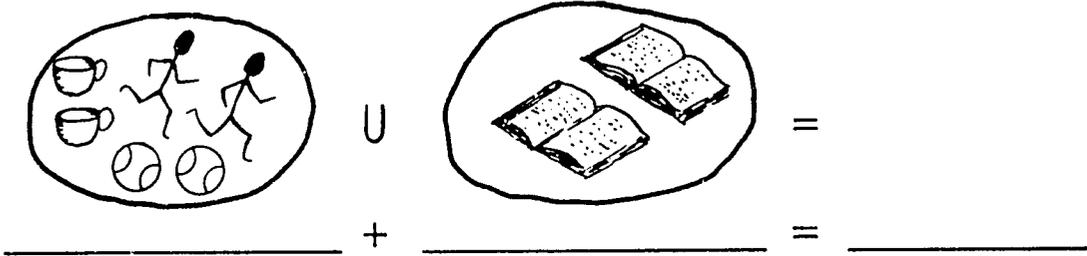
2.



The addends are _____ and _____.

The sum is _____.

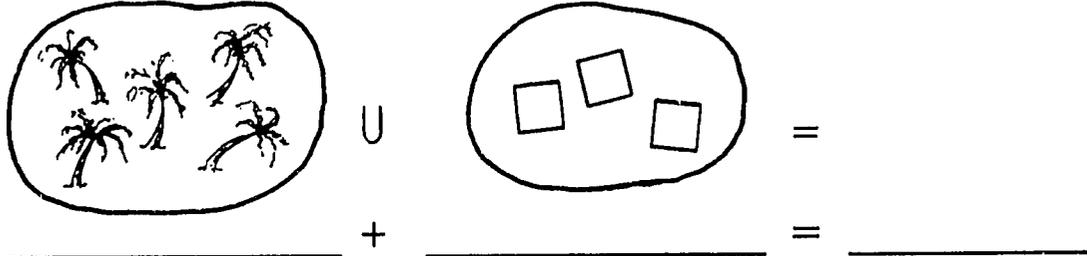
3.



The addends are _____ and _____.

The sum is _____.

4.



The addends are _____ and _____.

The sum is _____.

Addition Sentences

1. $2 + 3 = \square$

2. $\square = 0 + 7$

3. $2 + 7 = \square$

4. $\square = 3 + 8$

5. $\square = 3 + 13$

6. $9 + 9 = \square$

7. $13 + 4 = \square$

8. $\square = 12 + 6$

9. $6 + 2 = \square$

10. $4 + 7 = \square$

11. $\square = 18 + 0$

12. $5 + 9 = \square$

13. $\square = 12 + 7$

14. $9 + 8 = \square$

15. $13 + 5 = \square$

16. $6 + 13 = \square$

17. $7 + 8 = \square$

18. $8 + 4 = \square$

19. $14 + 5 = \square$

20. $\square = 5 + 8$

21. $\square = 7 + 9$

22. $12 + 5 = \square$

23. $4 + 12 = \square$

24. $\square = 0 + 10$

25. $\square = 7 + 10$

26. $16 + 3 = \square$

Addition Sentences

-
- | | |
|------------------------|-------------------------|
| 1. $9 + 7 = \square$ | 14. $\square = 6 + 8$ |
| 2. $8 + 5 = \square$ | 15. $\square = 9 + 3$ |
| 3. $10 = 7 + \square$ | 16. $19 = \square + 18$ |
| 4. $\square + 9 = 10$ | 17. $\square = 1 + 6$ |
| 5. $12 + 4 = \square$ | 18. $13 + 6 = \square$ |
| 6. $6 + 9 = \square$ | 19. $9 + 5 = \square$ |
| 7. $17 + \square = 19$ | 20. $7 + \square = 14$ |
| 8. $4 + 9 = \square$ | 21. $\square = 7 + 12$ |
| 9. $8 + 8 = \square$ | 22. $\square = 11 + 6$ |
| 10. $4 + \square = 12$ | 23. $1 + \square = 25$ |
| 11. $\square = 0 + 16$ | 24. $\square = 6 + 5$ |
| 12. $\square = 5 + 5$ | 25. $\square = 3 + 9$ |
| 13. $\square = 7 + 4$ | 26. $\square = 9 + 0$ |

Addition Sentences

1. $\square = 15 + 1$

2. $15 + 2 = \square$

3. $\square = 13 + 2$

4. $\square = 7 + 7$

5. $\square = 17 + 1$

6. $5 + 10 = \square$

7. $6 + 9 = \square$

8. $6 + 6 = \square$

9. $\square = 7 + 2$

10. $19 = 10 + \square$

11. $\square = 10 + 7$

12. $\square = 8 + 9$

13. $\square = 4 + 11$

14. $\square = 9 + 6$

15. $7 + \square = 13$

16. $\square = 3 + 15$

17. $\square = 13 + 0$

18. $8 + 6 = \square$

19. $5 + 7 = \square$

20. $8 + 7 = \square$

21. $7 + 6 = \square$

22. $9 + 4 = \square$

23. $10 + 0 = \square$

24. $6 + 7 = \square$

25. $\square = 2 + 6$

26. $\square = 12 + 2$

1. $\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$	10. $\begin{array}{r} 9 \\ + 0 \\ \hline \end{array}$	19. $\begin{array}{r} 7 \\ + 4 \\ \hline \end{array}$
2. $\begin{array}{r} 11 \\ + 7 \\ \hline \end{array}$	11. $\begin{array}{r} 13 \\ + 6 \\ \hline \end{array}$	20. $\begin{array}{r} 8 \\ + 6 \\ \hline \end{array}$
3. $\begin{array}{r} 9 \\ + 5 \\ \hline \end{array}$	12. $\begin{array}{r} 12 \\ + 5 \\ \hline \end{array}$	21. $\begin{array}{r} 11 \\ + 5 \\ \hline \end{array}$
4. $\begin{array}{r} 3 \\ + 14 \\ \hline \end{array}$	13. $\begin{array}{r} 8 \\ + 9 \\ \hline \end{array}$	22. $\begin{array}{r} 6 \\ + 9 \\ \hline \end{array}$
5. $\begin{array}{r} 12 \\ + 7 \\ \hline \end{array}$	14. $\begin{array}{r} 15 \\ + 0 \\ \hline \end{array}$	23. $\begin{array}{r} 4 \\ + 14 \\ \hline \end{array}$
6. $\begin{array}{r} 17 \\ + 2 \\ \hline \end{array}$	15. $\begin{array}{r} 4 \\ + 13 \\ \hline \end{array}$	24. $\begin{array}{r} 7 \\ + 7 \\ \hline \end{array}$
7. $\begin{array}{r} 18 \\ + 0 \\ \hline \end{array}$	16. $\begin{array}{r} 15 \\ + 2 \\ \hline \end{array}$	25. $\begin{array}{r} 7 \\ + 12 \\ \hline \end{array}$
8. $\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$	17. $\begin{array}{r} 15 \\ + 4 \\ \hline \end{array}$	26. $\begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$
9. $\begin{array}{r} 9 \\ + 7 \\ \hline \end{array}$	18. $\begin{array}{r} 10 \\ + 8 \\ \hline \end{array}$	27. $\begin{array}{r} 5 \\ + 11 \\ \hline \end{array}$

What number makes the sentence true?

- | | |
|-----------------------------|-----------------------------|
| 1. $2 + 7 = \square + 3$ | 14. $\square + 14 = 0 + 18$ |
| 2. $8 + 5 = \square + 10$ | 15. $\square + 9 = 3 + 11$ |
| 3. $4 + 9 = \square + 7$ | 16. $\square + 7 = 12 + 5$ |
| 4. $3 + 8 = \square + 5$ | 17. $\square + 8 = 16 + 0$ |
| 5. $\square + 6 = 8 + 7$ | 18. $7 + 7 = \square + 4$ |
| 6. $\square + 12 = 10 + 9$ | 19. $3 + 10 = \square + 8$ |
| 7. $9 + 5 = \square + 3$ | 20. $\square + 9 = 7 + 5$ |
| 8. $7 + 3 = \square + 6$ | 21. $\square + 2 = 4 + 4$ |
| 9. $6 + 6 = \square + 8$ | 22. $\square + 11 = 6 + 5$ |
| 10. $5 + 7 = \square + 4$ | 23. $\square + 18 = 17 + 2$ |
| 11. $\square + 13 = 2 + 11$ | 24. $2 + 17 = \square + 19$ |
| 12. $\square + 17 = 9 + 9$ | 25. $8 + 9 = \square + 8$ |
| 13. $\square + 10 = 7 + 9$ | 26. $3 + 12 = \square + 5$ |

Find the missing addend.

1.

$$10 = 3 + \square$$

$$10 - 3 = \square$$

7.

$$11 = 5 + \square$$

$$11 - 5 = \square$$

2.

$$5 + \square = 9$$

$$\square = 9 - 5$$

8.

$$3 + \square = 8$$

$$\square = 8 - 3$$

3.

$$16 = 8 + \square$$

$$16 - 8 = \square$$

9.

$$13 = 7 + \square$$

$$13 - 7 = \square$$

4.

$$7 + \square = 14$$

$$\square = 14 - 7$$

10.

$$12 + \square = 19$$

$$\square = 19 - 12$$

5.

$$18 = 11 + \square$$

$$\square - 18 = 11$$

11.

$$15 = 10 + \square$$

$$15 - 10 = \square$$

6.

$$4 + \square = 12$$

$$\square = 12 - 4$$

12.

$$9 + \square = 17$$

$$\square = 17 - 9$$

Write the missing sentence.

Addition	Subtraction
1. <input type="text"/> + 6 = 13	13 - 6 = <input type="text"/>
2. <input type="text"/> + 8 = 15	
3. <input type="text"/> + 5 = 19	
4.	19 - 11 = <input type="text"/>
5.	<input type="text"/> = 18 - 7
6. <input type="text"/> + 8 = 18	
7.	16 - 8 = <input type="text"/>
8. 11 = 6 + <input type="text"/>	
9. 12 = 7 + <input type="text"/>	
10.	<input type="text"/> = 17 - 13
11.	13 - 5 = <input type="text"/>
12. <input type="text"/> + 16 = 18	
13.	<input type="text"/> = 18 - 9

What number makes the sentence true?

1. $19 - 4 = \square$

2. $\square - 6 = 3$

3. $12 - 7 = \square$

4. $17 - \square = 8$

5. $\square - 4 = 6$

6. $11 - 3 = \square$

7. $19 - \square = 12$

8. $\square - 9 = 5$

9. $13 - 8 = \square$

10. $14 - \square = 9$

11. $\square - 5 = 7$

12. $18 - 11 = \square$

13. $12 - \square = 4$

14. $\square - 3 = 14$

15. $15 - 15 = \square$

16. $10 - \square = 3$

17. $\square - 6 = 9$

18. $14 - 5 = \square$

19. $12 - \square = 6$

20. $\square - 12 = 7$

21. $15 - 4 = \square$

22. $18 - \square = 9$

23. $\square - 8 = 3$

24. $14 - 7 = \square$

25. $17 - \square = 17$

26. $\square - 5 = 14$

Add the numbers.

1.

$$\begin{array}{r}
 500 + 60 + 4 \\
 200 + 70 + 5 \\
 \hline
 700 + 130 + 9 = 800 + 30 + 9 = \begin{array}{r} 564 \\ +275 \\ \hline 839 \end{array}
 \end{array}$$

2.

$$\begin{array}{r}
 100 + 50 + 8 \\
 200 + 60 + 1 \\
 \hline
 \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} + \underline{\quad} = \begin{array}{r} 158 \\ +261 \\ \hline \end{array}
 \end{array}$$

3.

$$\begin{array}{r}
 400 + 70 + 3 \\
 300 + 10 + 9 \\
 \hline
 \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} + \underline{\quad} = \begin{array}{r} 473 \\ +319 \\ \hline \end{array}
 \end{array}$$

4.

$$\begin{array}{r}
 500 + 20 + 8 \\
 100 + 70 + 6 \\
 \hline
 \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} + \underline{\quad} = \begin{array}{r} 528 \\ +176 \\ \hline \end{array}
 \end{array}$$

5.

$$\begin{array}{r}
 100 + 80 + 3 \\
 300 + 60 + 5 \\
 \hline
 \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} + \underline{\quad} = \begin{array}{r} 183 \\ +365 \\ \hline \end{array}
 \end{array}$$

6.

$$\begin{array}{r}
 600 + 30 + 7 \\
 200 + 80 + 6 \\
 \hline
 \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} + \underline{\quad} + \underline{\quad} = \begin{array}{r} 637 \\ +286 \\ \hline \end{array}
 \end{array}$$

1.

$$\begin{array}{r} 70 + 8 = 78 \\ \underline{40 + 5 = -45} \\ 30 + 3 = \end{array}$$

4.

$$\begin{array}{r} 50 + 8 = 58 \\ \underline{\quad + \quad = -28} \\ \quad + \quad = \end{array}$$

2.

$$\begin{array}{r} 40 + 8 = 48 \\ \underline{30 + 2 = +32} \\ \quad + \quad = \end{array}$$

5.

$$\begin{array}{r} \quad + \quad = 69 \\ \underline{\quad + \quad = -32} \\ \quad + \quad = \end{array}$$

3.

$$\begin{array}{r} 70 + 8 = 78 \\ \underline{\quad + \quad = -34} \\ \quad + \quad = \end{array}$$

6.

$$\begin{array}{r} \quad + \quad = 52 \\ \underline{\quad + \quad = +37} \\ \quad + \quad = \end{array}$$

7.

$$\begin{array}{r} 600 + 90 + 9 = 699 \\ \underline{200 + 50 + 7 = -257} \\ \quad + \quad + \quad = \end{array}$$

8.

$$\begin{array}{r} \quad + \quad + \quad = 345 \\ \underline{\quad + \quad + \quad = +825} \\ \quad + \quad + \quad = \end{array}$$

9.

$$\begin{array}{r} \quad = 778 \\ \underline{\quad = -173} \\ \quad = \end{array}$$

Add or subtract.

1.

$$\begin{array}{r} 50 + 13 = 63 \\ 20 + 5 = -25 \\ \hline 30 + 8 = \end{array}$$

7.

$$\begin{array}{r} 100 + 70 + 8 = 178 \\ \quad \quad 30 + 4 = -34 \\ \hline + \quad + = \end{array}$$

2.

$$\begin{array}{r} 60 + = 78 \\ 40 + 9 = -49 \\ \hline + = \end{array}$$

8.

$$\begin{array}{r} 500 + 40 + 7 = 547 \\ \quad + \quad + = +724 \\ \hline + \quad + = \end{array}$$

3.

$$\begin{array}{r} + = 52 \\ 30 + 6 = +36 \\ \hline + = \end{array}$$

9.

$$\begin{array}{r} + + = 485 \\ + + = -229 \\ \hline + + = \end{array}$$

4.

$$\begin{array}{r} + = 84 \\ 50 + 7 = -57 \\ \hline + = \end{array}$$

10.

$$\begin{array}{r} + + = 572 \\ \quad 40 + 3 = +43 \\ \hline + + = \end{array}$$

5.

$$\begin{array}{r} + + = 735 \\ + + = +676 \\ \hline + + = \end{array}$$

11.

$$\begin{array}{r} + = 92 \\ + = -27 \\ \hline + = \end{array}$$

6.

$$\begin{array}{r} + = 97 \\ + = -58 \\ \hline + = \end{array}$$

12.

$$\begin{array}{r} + + = 257 \\ + + = +161 \\ \hline + + = \end{array}$$

Add the numbers.

1.

$$\begin{array}{r}
 700 + 50 + 6 \\
 500 + 40 + 3 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 756 \\
 +543 \\
 \hline
 \end{array}$$

_____ + _____ + _____ = _____ + _____ + _____ =

2.

$$\begin{array}{r}
 600 + 30 + 7 \\
 800 + 50 + 4 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 637 \\
 +854 \\
 \hline
 \end{array}$$

_____ + _____ + _____ = _____ + _____ + _____ =

3.

$$\begin{array}{r}
 500 + 70 + 5 \\
 900 + 60 + 3 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 575 \\
 +963 \\
 \hline
 \end{array}$$

_____ + _____ + _____ = _____ + _____ + _____ =

4.

$$\begin{array}{r}
 400 + 90 + 8 \\
 600 + 40 + 5 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 498 \\
 +645 \\
 \hline
 \end{array}$$

_____ + _____ + _____ = _____ + _____ + _____ =

5.

$$\begin{array}{r}
 700 + 60 + 5 \\
 200 + 30 + 9 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 765 \\
 +239 \\
 \hline
 \end{array}$$

_____ + _____ + _____ = _____ + _____ + _____ =

6.

$$\begin{array}{r}
 300 + 70 + 8 \\
 700 + 20 + 2 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 378 \\
 +722 \\
 \hline
 \end{array}$$

_____ + _____ + _____ = _____ + _____ + _____ =

Add or subtract.

1.

$$\begin{array}{r} 50 + 13 = 63 \\ 20 + 5 = -25 \\ \hline 30 + 8 = \underline{\quad} \end{array}$$

7.

$$\begin{array}{r} 100 + 70 + 8 = 178 \\ \quad \quad 30 + 4 = -34 \\ \hline \underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad} \end{array}$$

2.

$$\begin{array}{r} 70 + 8 = 78 \\ 40 + 9 = -49 \\ \hline \underline{\quad} + \underline{\quad} = \underline{\quad} \end{array}$$

8.

$$\begin{array}{r} 500 + 40 + 7 = 547 \\ \hline \underline{\quad} = +724 \\ = \end{array}$$

3.

$$\begin{array}{r} 50 + 2 = 52 \\ \hline \underline{\quad} = +36 \\ = \end{array}$$

9.

$$\begin{array}{r} \hline \underline{\quad} = 485 \\ \underline{\quad} = -229 \\ = \end{array}$$

4.

$$\begin{array}{r} \hline \underline{\quad} = 84 \\ \underline{\quad} = -57 \\ = \end{array}$$

10.

$$\begin{array}{r} \hline \underline{\quad} = 572 \\ \underline{\quad} = +43 \\ = \end{array}$$

5.

$$\begin{array}{r} \hline \underline{\quad} = 735 \\ \underline{\quad} = +686 \\ = \end{array}$$

11.

$$\begin{array}{r} \hline \underline{\quad} = 92 \\ \underline{\quad} = -27 \\ = \end{array}$$

6.

$$\begin{array}{r} \hline \underline{\quad} = 97 \\ \underline{\quad} = -58 \\ = \end{array}$$

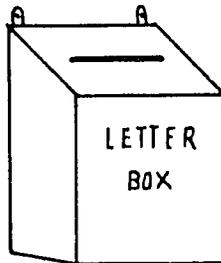
12.

$$\begin{array}{r} \hline \underline{\quad} = 257 \\ \underline{\quad} = -161 \\ = \end{array}$$

Add.		Subtract.	
1. $\begin{array}{r} 182 \\ 741 \\ \hline \end{array}$	5. $\begin{array}{r} 356 \\ 824 \\ \hline \end{array}$	9. $\begin{array}{r} 65 \\ 21 \\ \hline \end{array}$	13. $\begin{array}{r} 98 \\ 47 \\ \hline \end{array}$
2. $\begin{array}{r} 748 \\ 239 \\ \hline \end{array}$	6. $\begin{array}{r} 546 \\ 727 \\ \hline \end{array}$	10. $\begin{array}{r} 61 \\ 47 \\ \hline \end{array}$	14. $\begin{array}{r} 129 \\ 82 \\ \hline \end{array}$
3. $\begin{array}{r} 732 \\ 179 \\ \hline \end{array}$	7. $\begin{array}{r} 257 \\ 1352 \\ \hline \end{array}$	11. $\begin{array}{r} 453 \\ 147 \\ \hline \end{array}$	15. $\begin{array}{r} 391 \\ 208 \\ \hline \end{array}$
4. $\begin{array}{r} 3412 \\ 1715 \\ \hline \end{array}$	8. $\begin{array}{r} 4581 \\ 2093 \\ \hline \end{array}$	12. $\begin{array}{r} 585 \\ 277 \\ \hline \end{array}$	16. $\begin{array}{r} 728 \\ 643 \\ \hline \end{array}$

Story Problems

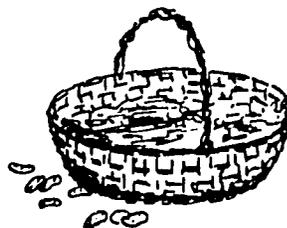
1.



This morning 581 letters were put in the letter box.
This afternoon 407 letters were put in the box.
How many letters were put in the box today?

There were ___ letters put in the box today.

2.

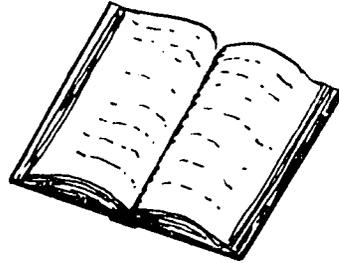


John had 276 groundnuts. Mary had 121 groundnuts.
Mary and John put their groundnuts in one basket.
How many groundnuts are in the basket?

There are ___ groundnuts in the basket.

Story Problems

3.

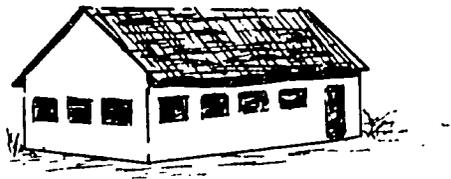


Muli has a drawing book. It has 276 pages. She used 243 pages.

How many pages are not used?

There are ___ pages not used.

4.



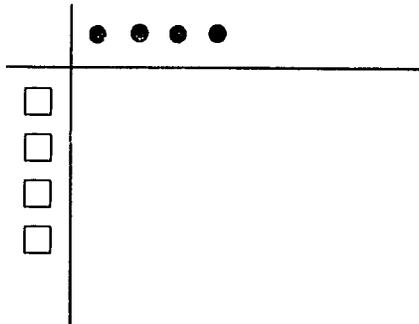
A school has 670 pupils.

355 pupils are girls.

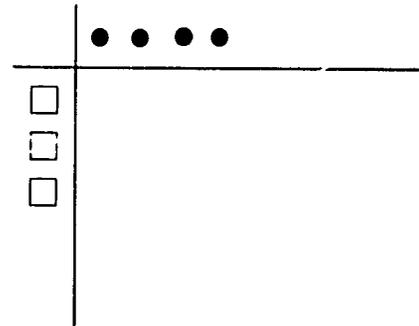
How many boys are in the school?

There are ___ boys in the school.

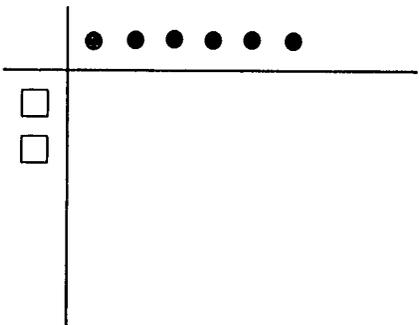
Mix the sets.



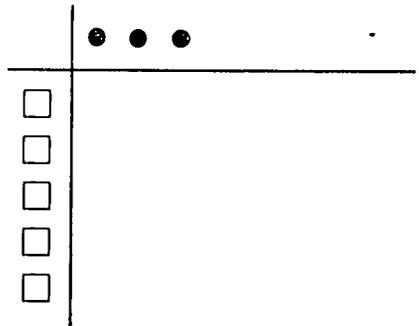
The factors are ___ and ___.
 The product is _____.
 _____ × _____ = _____



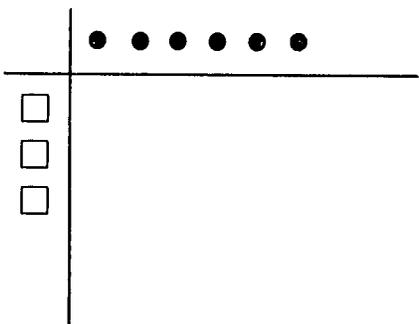
The factors are ___ and ___.
 The product is _____.
 _____ × _____ = _____



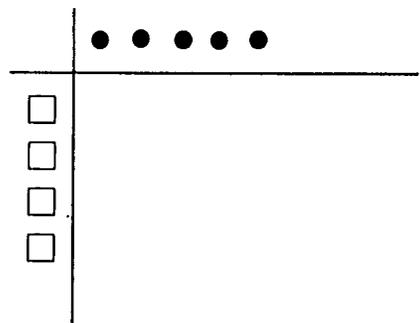
The factors are ___ and ___.
 The product is _____.
 _____ × _____ = _____



The factors are ___ and ___.
 The product is _____.
 _____ × _____ = _____



The factors are ___ and ___.
 The product is _____.
 _____ × _____ = _____



The factors are ___ and ___.
 The product is _____.
 _____ × _____ = _____

What number makes the sentence true?

1. $3 \times 2 = a$, a is _____.
2. $2 \times 7 = n$, n is _____.
3. $3 \times 4 = b$, b is _____.
4. $2 \times 5 = c$, c is _____.
5. $2 \times a = 16$, a is _____.
6. $c \times 3 = 12$, c is _____.
7. $5 + 3 = b$, b is _____.
8. $1 \times 11 = d$, d is _____.
9. $12 - e = 5$, e is _____.
10. $10 \times 2 = s$, s is _____.
11. $3 \times 5 = t$, t is _____.
12. $7 \times 1 = y$, y is _____.

What number makes the sentence true?

1. $3 \times a = 15,$ a is _____.
2. $b \times 7 = 14,$ b is _____.
3. $5 \times 4 = n,$ n is _____.
4. $3 \times y = 18,$ y is _____.
5. $6 \times 3 = c,$ c is _____.
6. $7 \times 12 = f,$ f is _____.
7. $4 \times m = 16,$ m is _____.
8. $z \times 3 = 15,$ z is _____.
9. $9 + a = 14,$ a is _____.
10. $7 \times 3 = e,$ e is _____.
11. $d \times 9 = 18,$ d is _____.
12. $b + 11 = 19,$ b is _____.

Multiplication Sentences and Division Sentences

1. $3 \times n = 15$

2. $12 \div 6 = a$

3. $12 \div 3 = c$

4. $b \times 7 = 14$

5. $2 \times c = 10$

6. $3 \times y = 9$

7. $16 \div 4 = m$

8. $18 \div 3 = f$

9. $8 \div 4 = g$

10. $18 \div h = 9$

11. $e \times 8 = 16$

12. $y \times 3 = 12$

13. $9 \times y = 18$

14. $20 \div m = 4$

15. $15 \div 5 = d$

16. $12 \div 3 = k$

17. $2 \times z = 10$

18. $r \times 4 = 16$

19. $2 \times 6 = s$

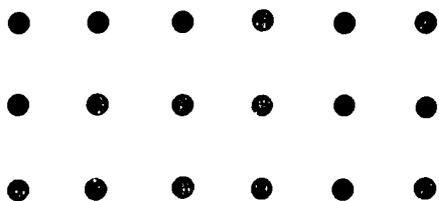
20. $10 \div y = 2$

21. $12 \div 6 = h$

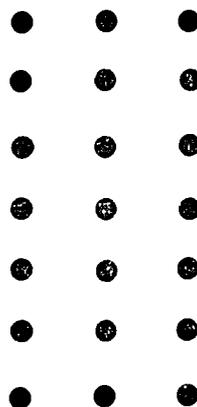
22. $f \times 3 = 18$

Tell a story problem.

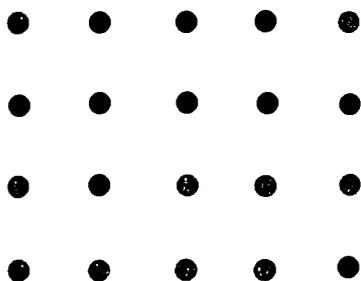
1.



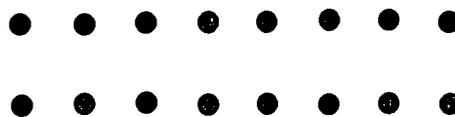
4.



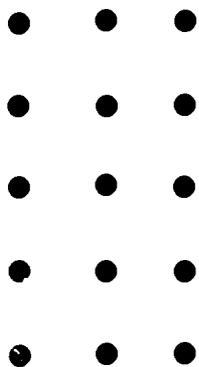
2.



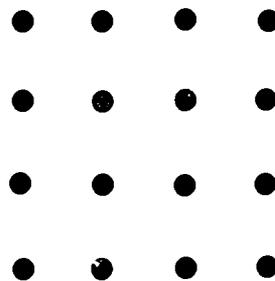
5.

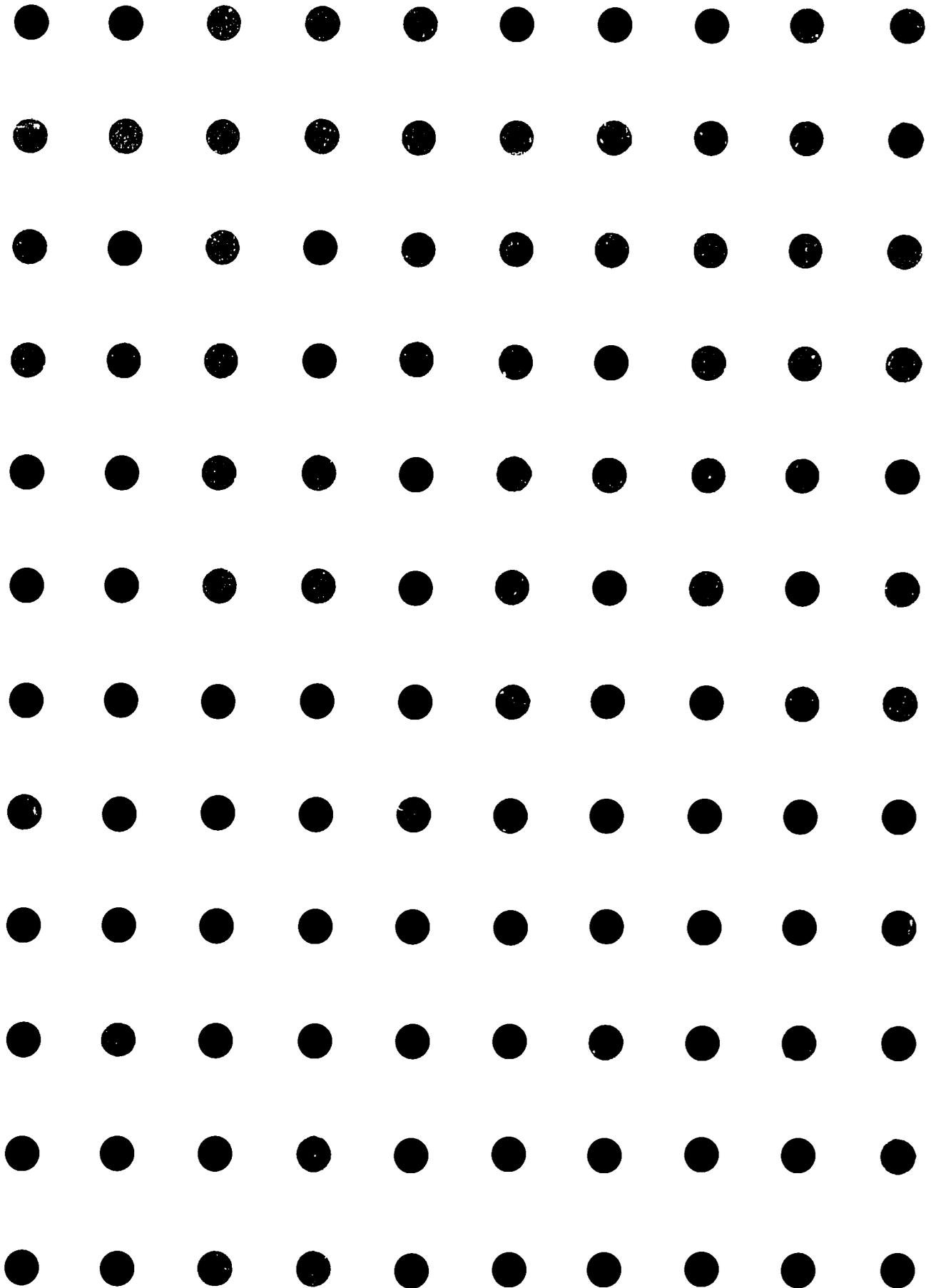


3.



6.





Find the product.

1. $5 \times 4 = n$, n is _____.
2. $5 \times 5 = t$, t is _____.
3. $6 \times 5 = b$, b is _____.
4. $7 \times 5 = c$, c is _____.
5. $5 \times 7 = v$, v is _____.
6. $6 \times 4 = r$, r is _____.
7. $7 \times 4 = a$, a is _____.
8. $8 \times 4 = y$, y is _____.
9. $4 \times 7 = s$, s is _____.
10. $4 \times 8 = f$, f is _____.
11. $9 \times 4 = n$, n is _____.
12. $7 \times 3 = w$, w is _____.

What number makes the sentence true?

1. $8 \times 3 = m$, m is _____.
2. $9 \times 3 = k$, k is _____.
3. $10 \times 3 = c$, c is _____.
4. $11 \times 3 = e$, e is _____.
5. $3 \times 12 = t$, t is _____.
6. $n = 6 \times 3$, n is _____.
7. $b = 7 \times 2$, b is _____.
8. $5 \times a = 20$, a is _____.
9. $6 \times n = 24$, n is _____.
10. $4 \times b = 20$, b is _____.
11. $n \times 5 = 20$, n is _____.
12. $16 = c \times 4$, c is _____.

Solve the sentence.

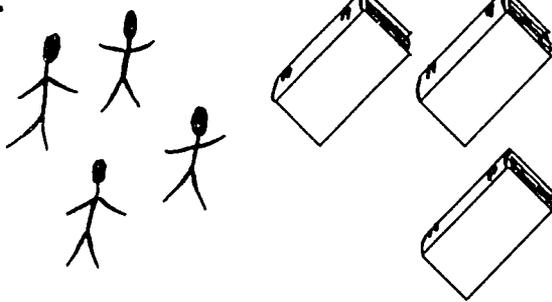
1. $s \times 4 = 12$, s is _____.
2. $8 \times 2 = d$, d is _____.
3. $m \times 5 = 15$, m is _____.
4. $7 \times t = 0$, t is _____.
5. $3 \times y = 24$, y is _____.
6. $32 = 8 \times a$, a is _____.
7. $2 \times b = 2$, b is _____.
8. $4 \times n = 36$, n is _____.
9. $2 \times 17 = b$, b is _____.
10. $a \times 11 = 33$, a is _____.
11. $t = 9 \times 3$, t is _____.
12. $5 \times 7 = m$, m is _____.

What number makes the sentence true?

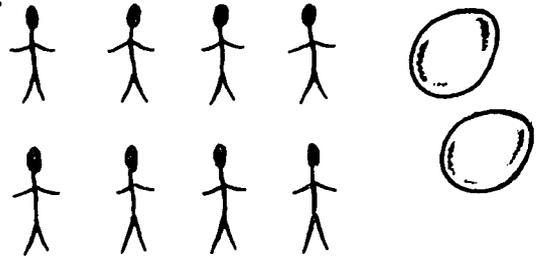
1. $6 \times 6 = n$, n is _____.
2. $t \times 6 = 24$, t is _____.
3. $7 \times 4 = r$, r is _____.
4. $h \times 7 = 28$, h is _____.
5. $7 \times a = 28$, a is _____.
6. $4 \times 8 = v$, v is _____.
7. $32 = 8 \times b$, b is _____.
8. $c \times 8 = 32$, c is _____.
9. $6 \times w = 36$, w is _____.
10. $6 \times e = 30$, e is _____.
11. $d = 4 \times 9$, d is _____.
12. $k \times 4 = 36$, k is _____.
13. $7 \times 6 = m$, m is _____.
14. $s \times 7 = 42$, s is _____.

Tell a story.

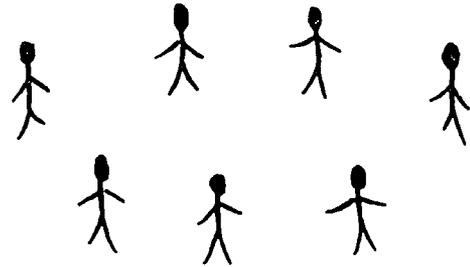
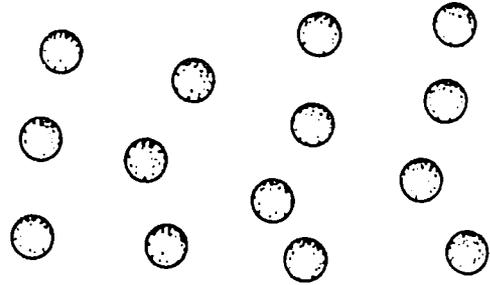
1.



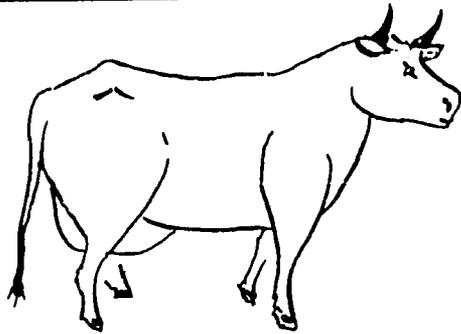
2.



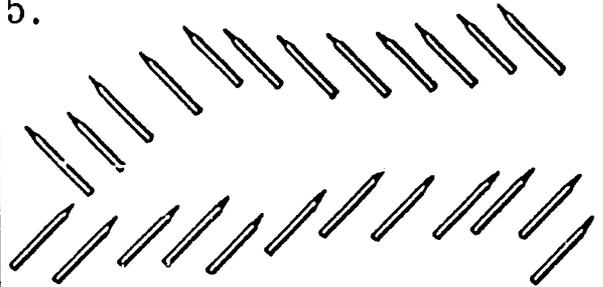
3.



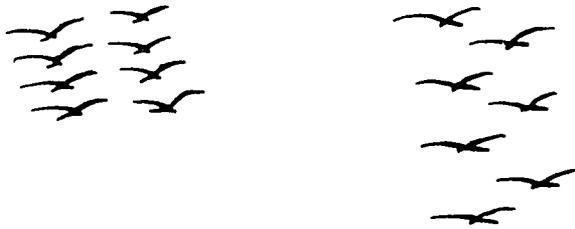
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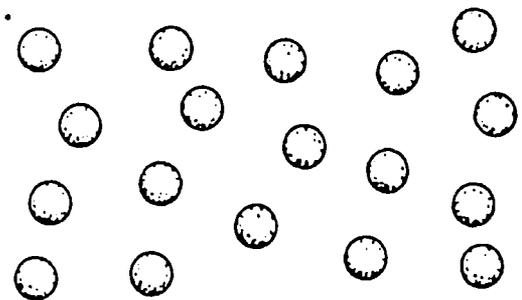
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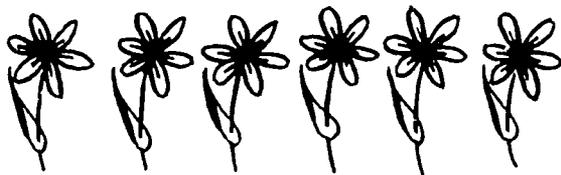
6.



7.



8.



9.



Solve the sentence.

1. $5 \times 3 = a$

2. $3 \times 5 = n$

3. $1 \times 15 = g$

4. $15 \times 1 = t$

5. $d \times 3 = 15$

6. $15 \div 3 = b$

7. $15 \div 5 = c$

8. $14 \div 2 = k$

9. $h \div 5 = 3$

10. $18 \div 3 = p$

11. $0 \times 4 = e$

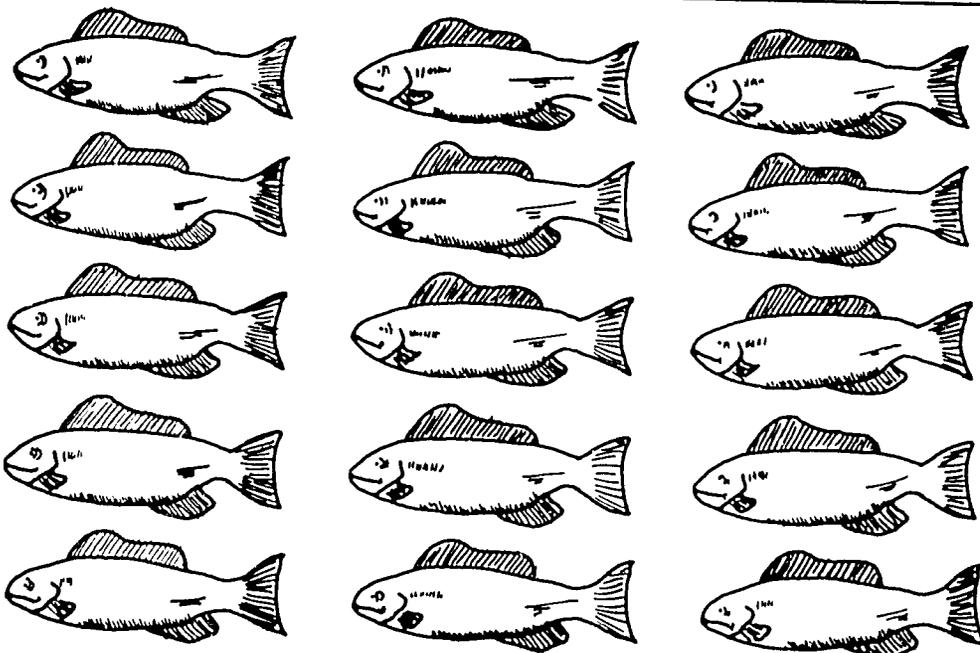
12. $j \times 4 = 0$

13. $16 \div 2 = q$

14. $16 \div 8 = z$

15. $y \times 4 = 12$

16. $18 \div 6 = u$



What number makes the sentence true?

1. $18 \div 3 = a$

2. $18 \div 2 = t$

3. $v \div 3 = 7$

4. $24 \div 2 = d$

5. $24 \div 6 = h$

6. $24 \div 3 = m$

7. $c = 21 \div 3$

8. $21 \div 21 = k$

9. $b \times 3 = 21$

10. $26 \div 2 = y$

11. $2 \times a = 26$

12. $28 \div 4 = r$

13. $12 + 3 = f$

14. $12 - 6 = b$

15. $4 \times d = 28$

16. $20 \div 2 = h$

17. $4 \times y = 20$

18. $20 \div 20 = t$

19. $25 \div 5 = m$

20. $f \times 5 = 25$

21. $30 \div 2 = e$

22. $r = 16 \div 4$

23. $s \times 4 = 16$

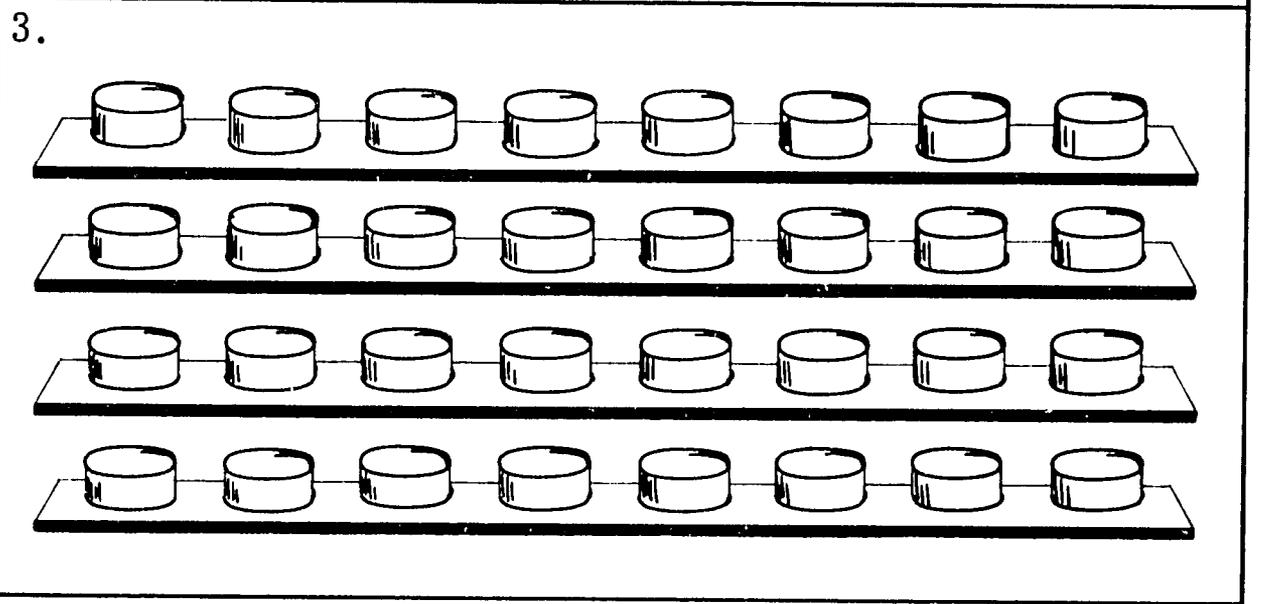
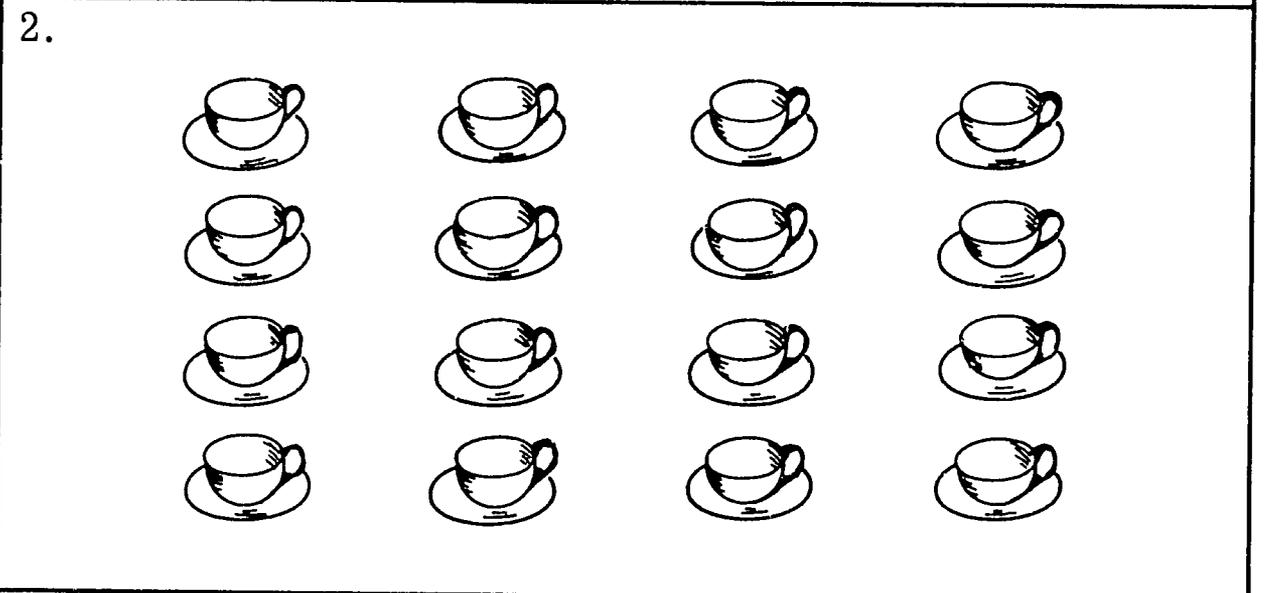
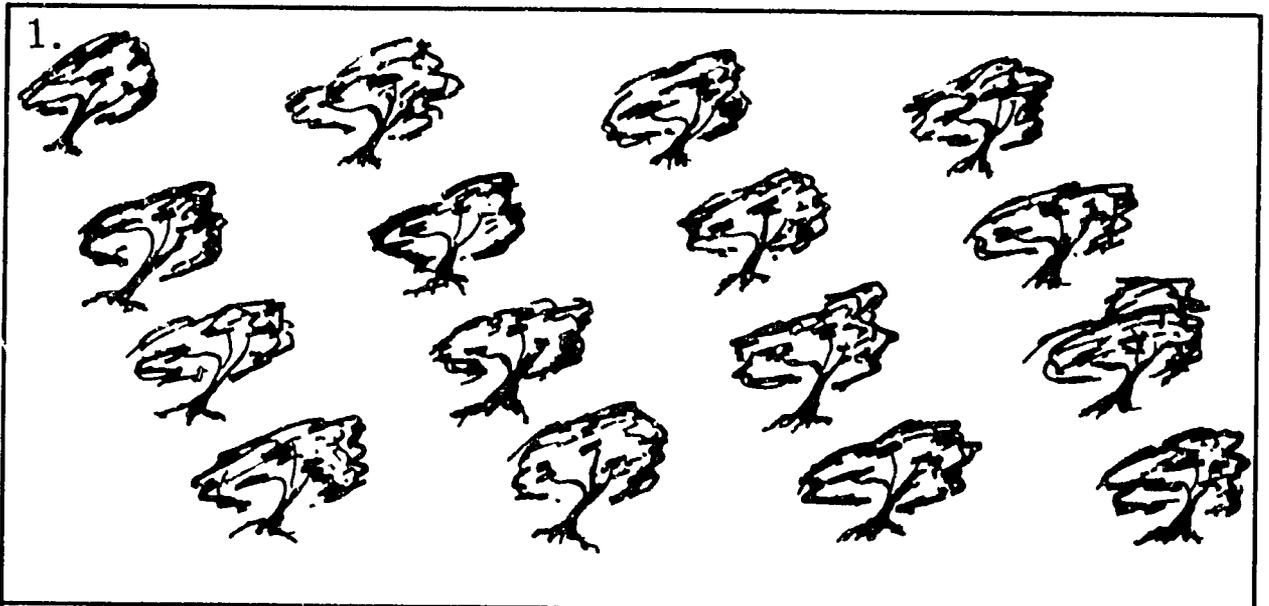
24. $e \times 4 = 36$

25. $36 \div 6 = y$

26. $35 \div 5 = d$

What number makes the sentence true?

1. $24 = 6 \times a$, a is _____.
2. $36 = n \times 9$, n is _____.
3. $15 = 5 \times f$, f is _____.
4. $22 = 11 \times t$, t is _____.
5. $20 = a \times b$; a is _____, b is _____.
6. $18 = c \times d$; c is _____, d is _____.
7. $7 \times 2 = s$, s is _____.
8. $b = 3 \times 4$, b is _____.
9. $c = 4 \times 2$, c is _____.
10. $10 = m \times n$; m is _____, n is _____.
11. $30 = r \times s$; r is _____, s is _____.
12. $s = 13 \times 2$, s is _____.
13. $28 = c \times a$; c is _____, a is _____.



Solve the sentence.

A	B
1. $3 \times 3 = k$	1. $11 \times 3 = d$
2. $1 \times 4 = m$	2. $4 \times 3 = e$
3. $1 \times 6 = b$	3. $g \times 3 = 18$
4. $5 \times 3 = g$	4. $3 + t = 19$
5. $4 \times 2 = t$	5. $28 - 8 = m$
6. $9 \times 2 = s$	6. $13 + b = 20$
7. $3 \times 2 = d$	7. $k = 27 \div 3$
8. $3 \times 1 = p$	8. $20 \div 4 = n$
9. $3 \times 4 = f$	9. $50 - 30 = h$
10. $4 \times m = 16$	10. $17 - f = 0$
11. $21 = 7 \times a$	11. $64 - 14 = s$
12. $10 \times h = 30$	12. $20 + r = 36$

What number makes the sentence true?

A	B
1. $10 \times n = 20$	1. $19 + g = 38$
2. $3 \times 9 = c$	2. $45 + p = 50$
3. $l \times 7 = 21$	3. $e + 10 = 20$
4. $q \times 4 = 12$	4. $m - 10 = 15$
5. $10 + 20 = a$	5. $l + 60 = 100$
6. $b = 8 \times 4$	6. $d \times 3 = 24$
7. $10 \times f = 10$	7. $27 \div g = 9$
8. $10 \times g = 0$	8. $c = 9 \times 4$
9. $36 \div 36 = l$	9. $20 \div 10 = a$
10. $17 + 13 = t$	10. $25 \div 5 = c$
11. $30 + 10 = g$	11. $35 \div 7 = e$
12. $50 - n = 15$	12. $24 \div 2 = g$

What number makes the sentence true?

A	B
1. $50 \div 10 = k$	1. $29 - 9 = b$
2. $19 \times 2 = m$	2. $3 \times d = 27$
3. $20 \times 2 = s$	3. $40 = 10 \times f$
4. $2 \times 4 = p$	4. $60 - 40 = h$
5. $2 \times d = 10$	5. $33 - 13 = i$
6. $4 \times b = 24$	6. $3 \times 12 = j$
7. $12 \times l = 24$	7. $39 - 16 = k$
8. $y = 8 \times 2$	8. $50 \div 5 = m$
9. $n \times 18 = 36$	9. $50 + 50 = n$
10. $7 \times 2 = h$	10. $25 + 25 = l$
11. $3 \times 11 = c$	11. $30 \div 3 = p$
12. $21 \div 3 = e$	12. $40 \div 4 = t$

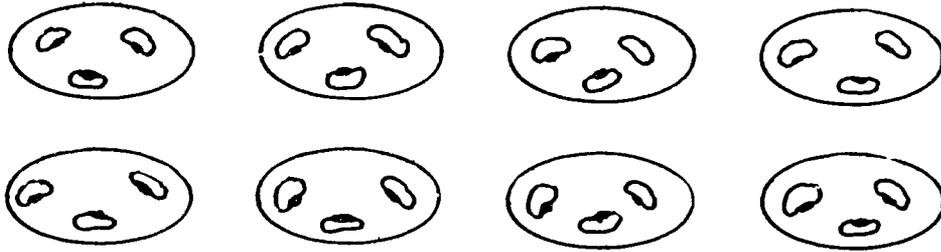
True or false?

1. $3 \times 5 = 5 \times 4$
2. $3 \times 5 = 5 \times 3$
3. $2 \times 3 = 3 \times 2$
4. $4 \times 2 = 2 \times 5$
5. $3 + 5 = 2 + 6$
6. $3 \times 6 = 14 + 8$
7. $0 + 8 = 3 \times 3$
8. $6 \times 4 = 3 \times 7$
9. $6 \times 4 = 4 \times 6$
10. $7 \times 8 = 8 \times 7$
11. $4 + 7 = 5 \times 2$
12. $8 - 2 = 2 \times 3$
13. $4 \times 6 = 3 \times 8$
14. $7 \times 0 = 9 - 9$
15. $7 \times 1 = 3 + 4$
16. $12 \div 2 = 12 - 2$
17. $5 \times 0 = 0 \times 1$
18. $12 \div 2 = 12 \times 2$
19. $3 \times 4 = 2 \times 6$
20. $100 + 100 = 50 \times 4$
21. $4 \times 2 = (2 \times 2) + 4$
22. $9 \times 8 = 8 \times 9$
23. $2 + 2 + 2 = 3 \times 2$
24. $100 - 0 = 50 \times 2$

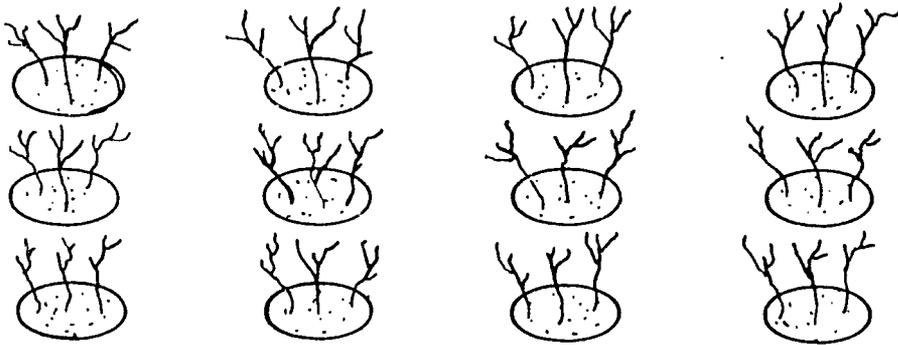
What number makes the sentence true?

1. $2 \times 5 = 5 \times n$, n is _____.
2. $4 \times n = 6 \times 4$, n is _____.
3. $8 + 7 = 5 \times n$, n is _____.
4. $1 \times 7 = 7 \times b$, b is _____.
5. $4 \times 5 = 15 + c$, c is _____.
6. $n \times 8 = 8 \times 0$, n is _____.
7. $(4 + 3) + 2 = 3 \times t$, t is _____.
8. $1 + (s + 0) = 5 \times 4$, s is _____.
9. $18 \times 1 = n \times 18$, n is _____.
10. $7 \times 3 = a \times 7$, a is _____.
11. $13 + 8 = a + 13$, a is _____.
12. $1 + r = 0 \times 6$, r is _____.

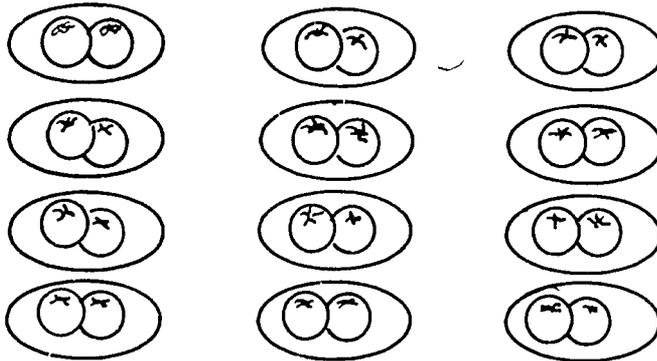
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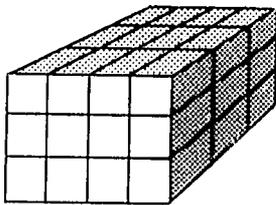
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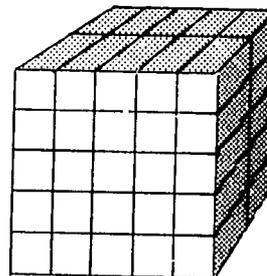
3.



4.



5.



True or false?

1. $3 \times (2 \times 4) = (3 \times 2) \times 3$

2. $3 \times (2 \times 4) = (3 \times 2) \times 4$

3. $(1 \times 3) \times 4 = 1 \times (3 \times 4)$

4. $2 \times (1 \times 8) = (2 \times 1) \times 8$

5. $3 \times (2 \times 4) = (2 \times 6) \times 2$

6. $(3 \times 5) \times 2 = 4 \times (5 \times 2)$

7. $(3 \times 5) \times 2 = 3 \times (5 \times 2)$

8. $5 \times 4 > 4 + 5$

9. $2 \times (3 \times 3) = (2 \times 3) \times 3$

What number makes the sentence true?

10. $6 \times 3 = n \times 6,$ n is _____.

11. $5 + 9 = n \times 2,$ n is _____.

12. $(3 \times 4) \times 2 = n \times (4 \times 2),$ n is _____.

13. $(5 \times 1) \times 4 = n \times (1 \times 5),$ n is _____.

14. $n \times 6 = 3 \times (2 \times 5),$ n is _____.

What number makes the sentence true?

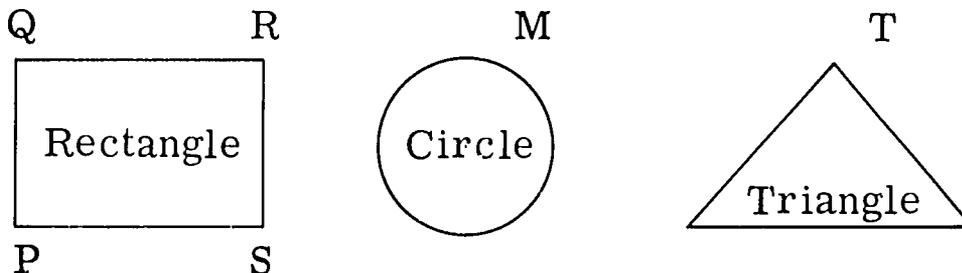
1. $(3 \times 4) + 5 = n$, n is _____.
2. $(2 \times 7) + 9 = y$, y is _____.
3. $4 + (7 \times 3) = a$, a is _____.
4. $c = 11 + (5 \times 3)$, c is _____.
5. $(4 + 6) \times 2 = r$, r is _____.
6. $v = 4 \times (2 \times 4)$, v is _____.
7. $(9 \times 3) + 7 = t$, t is _____.
8. $(3 + 5) \times 3 = m$, m is _____.
9. $(3 \times 2) + (3 \times 3) = s$, s is _____.
10. $3 \times (2 + 3) = b$, b is _____.
11. $(3 \times 2) + 8 = d$, d is _____.
12. $k = (4 \times 5) + (3 \times 5)$, k is _____.
13. $6 \times 1 > 4 + w$, w is _____.
14. $(2 \times 3) + (4 \times 3) = y$, y is _____.

True or false?

1. $(4 + 5) \times 2 = (4 \times 2) + 5$
2. $(4 + 5) \times 2 = (4 \times 2) + (5 \times 2)$
3. $4 + (3 \times 5) = (4 \times 4) + 3$
4. $(3 \times 2) + 5 = (3 + 5) \times 3$
5. $(3 \times 2) + (5 \times 2) = (3 \times 5) \times 2$
6. $(4 \times 2) + 7 = 7 + (4 \times 2)$
7. $(2 \times 3) + 3 = (2 + 3) \times 3$
8. $(5 \times 2) + (5 + 5) = (5 \times 2) \times 5$
9. $3 \times (5 + 3) = (3 \times 5) + (3 \times 3)$
10. $3 + (4 \times 2) = (3 + 4) \times 2$
11. $3 \times (4 \times 2) = (3 \times 4) \times 2$
12. $4 + (0 \times 6) = (4 + 0) \times 6$
13. $4 + 7 < 5 \times 3$
14. $5 \times 0 > 4 \times 1$

Beside, To the right of, To the left of, Between

1.



True or false?

Circle *M* is beside the rectangle *PQRS*.

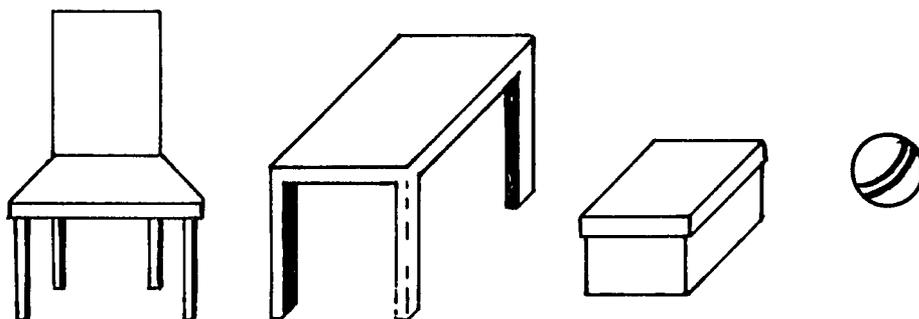
Circle *M* is between the rectangle *PQRS* and triangle *T*.

Triangle *T* is to the left of circle *M*.

Triangle *T* is to the right of rectangle *PQRS*.

Rectangle *PQRS* is between circle *M* and triangle *T*.

2.



Chair

Table

Box

Ball

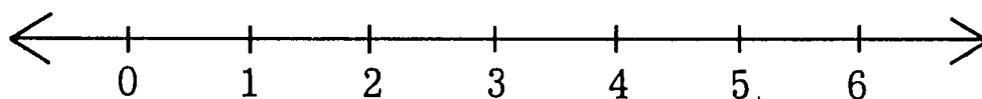
The table is _____ the chair and the ball.

The chair is to the _____ of the box.

The box is _____ the ball.

The table is to the _____ of the chair.

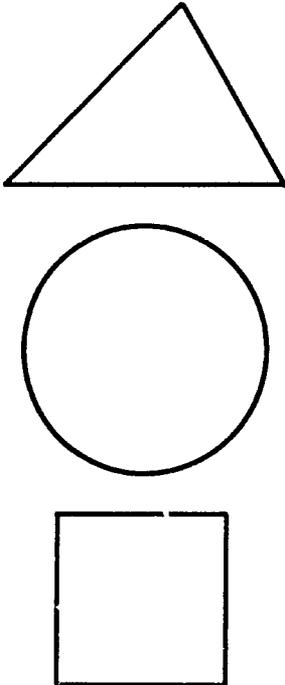
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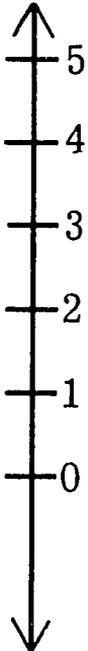
Number line

Above, Below

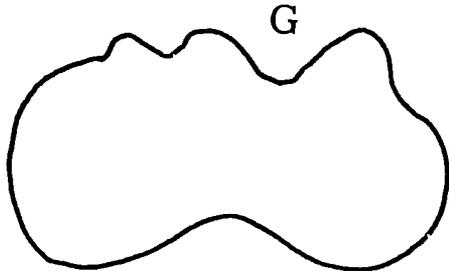
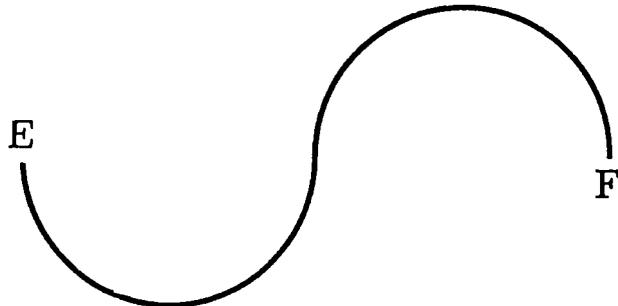
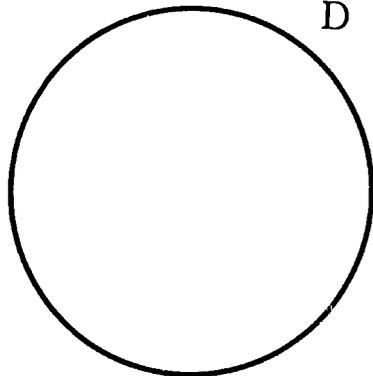
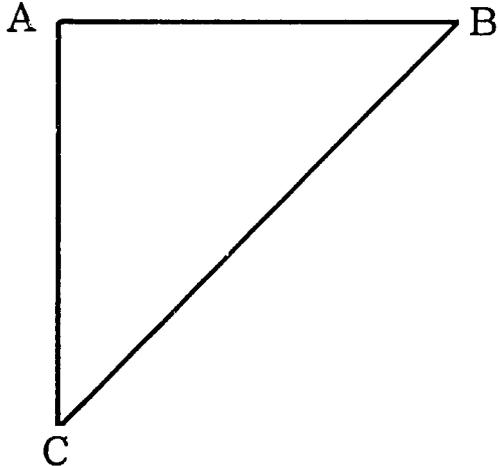
1.



2.

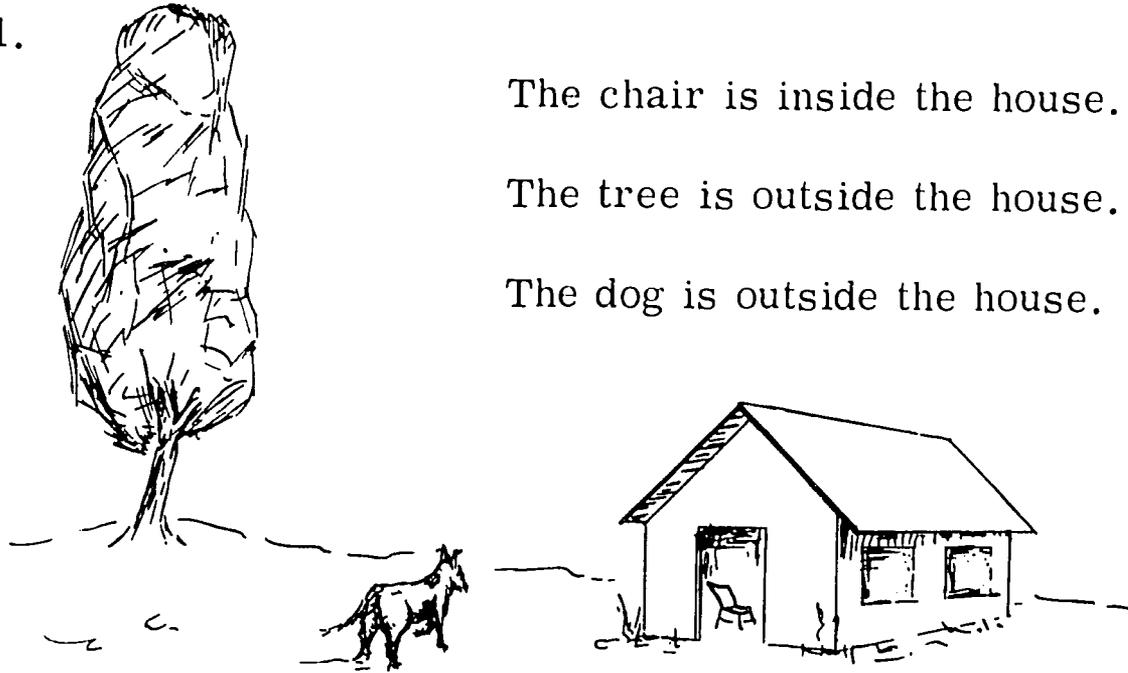


3.



Inside, Outside

1.

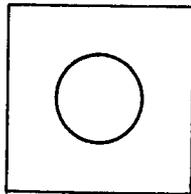
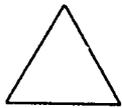


The chair is inside the house.

The tree is outside the house.

The dog is outside the house.

2.



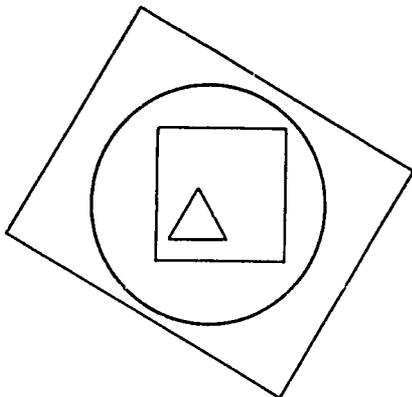
The circle is _____ the square.

The triangle is _____ the square.

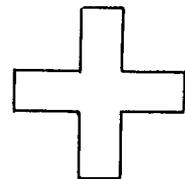
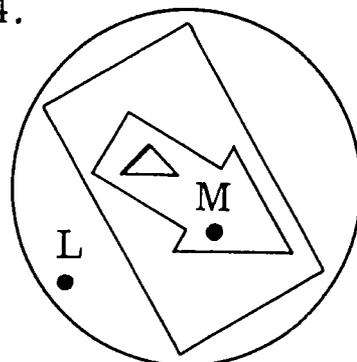
The triangle is _____ the circle.

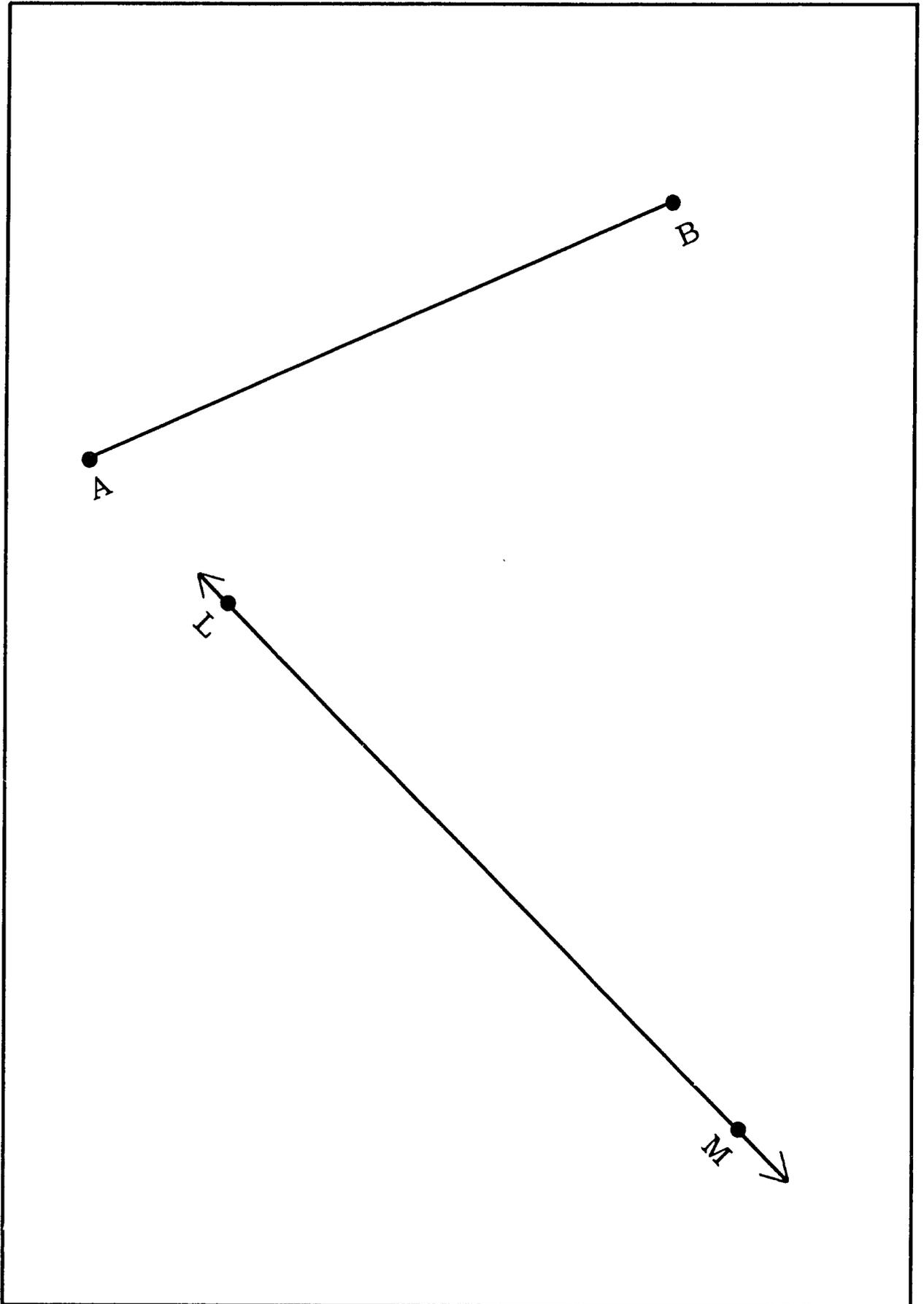
The square is _____ the circle.

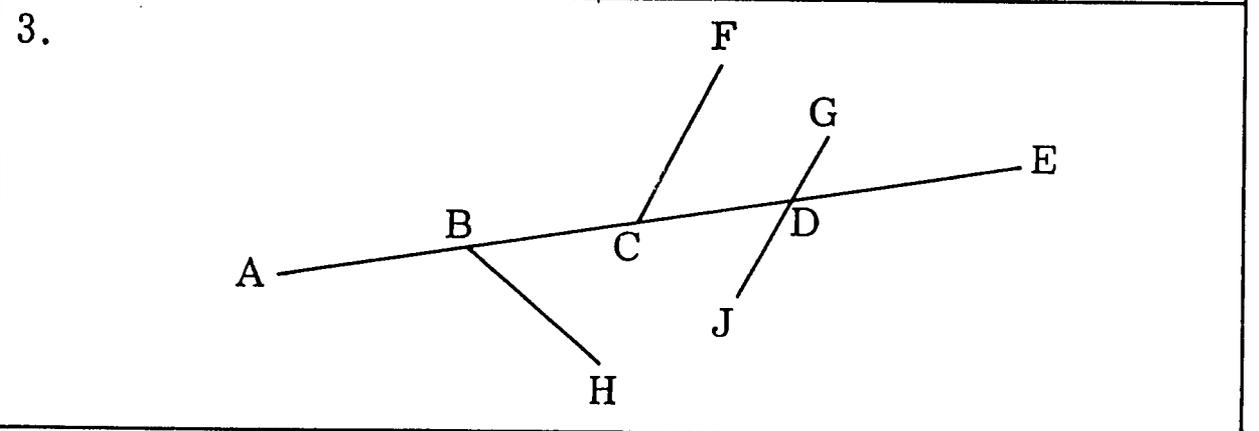
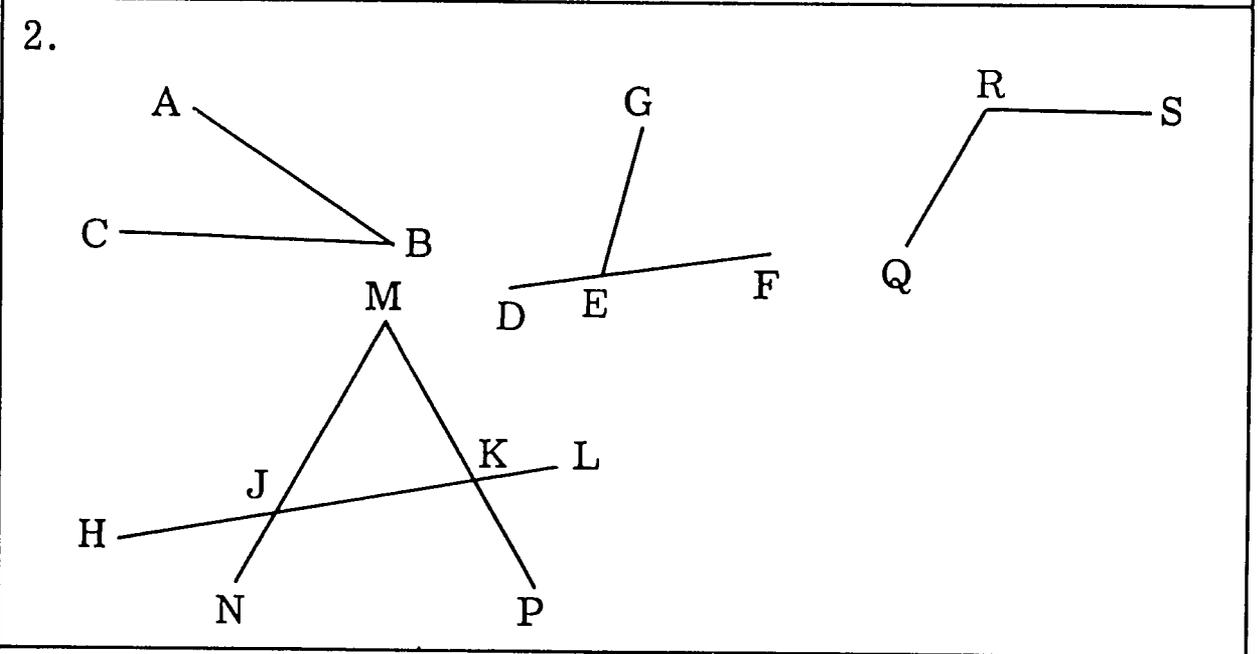
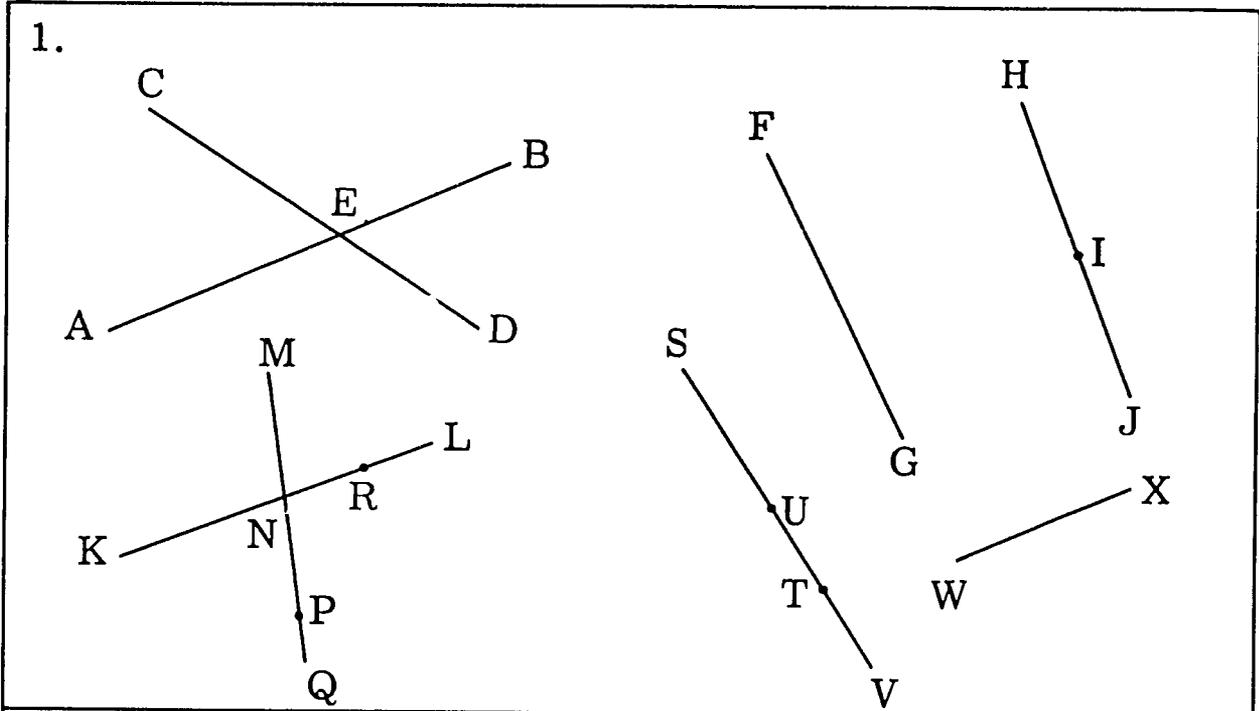
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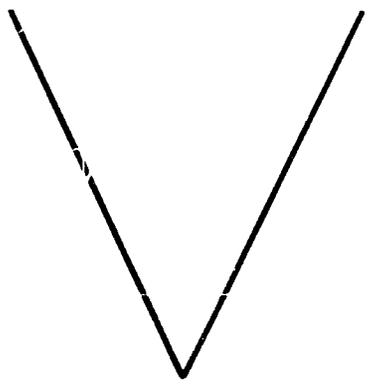
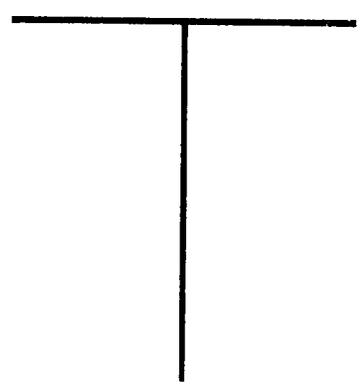
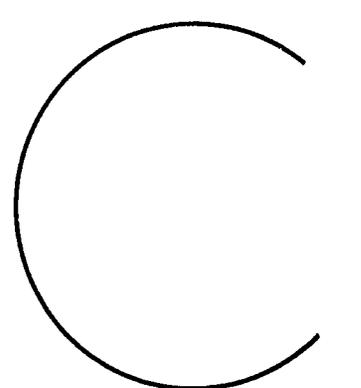
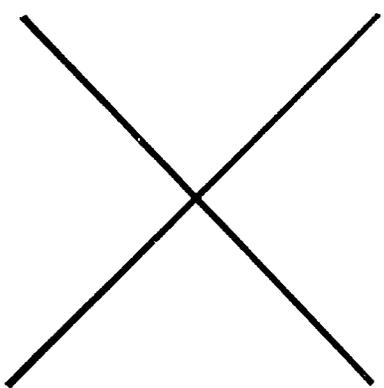
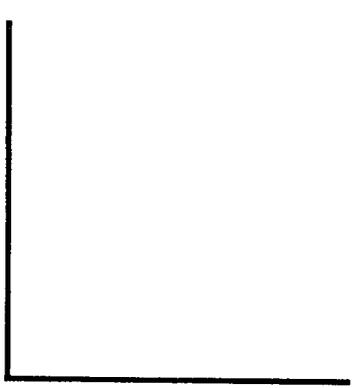
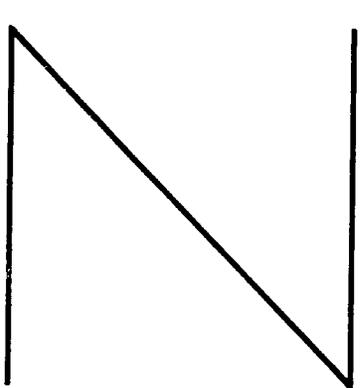
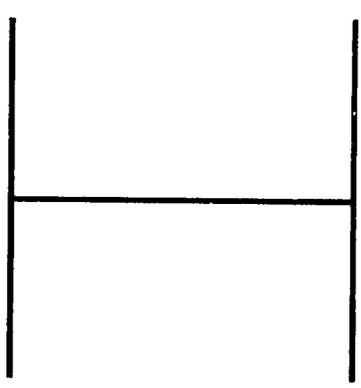
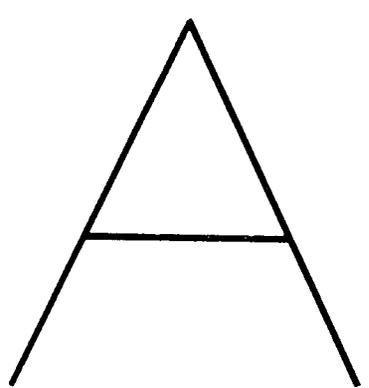
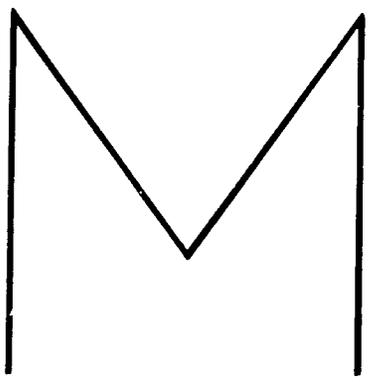
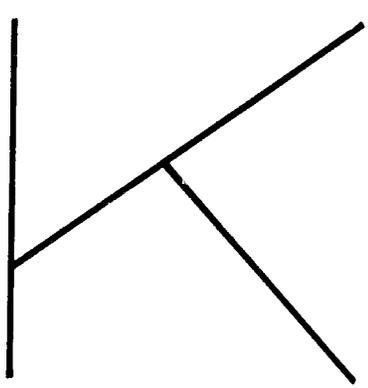
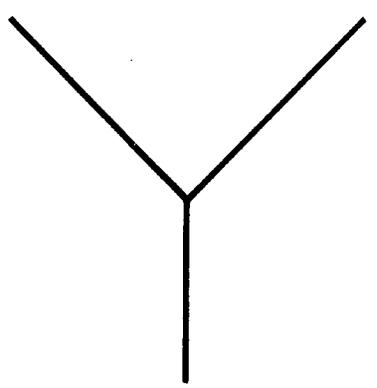


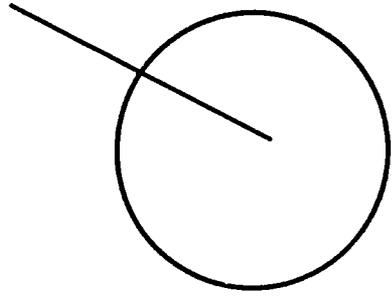
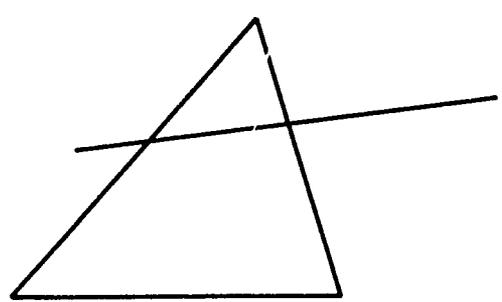
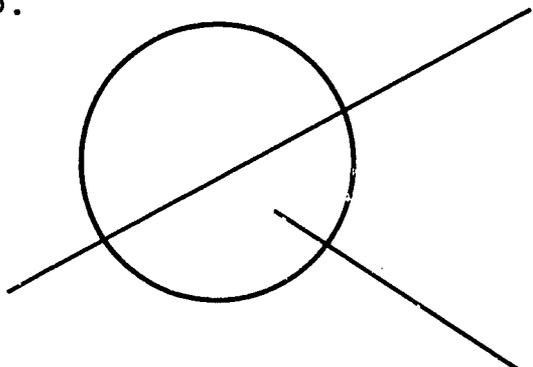
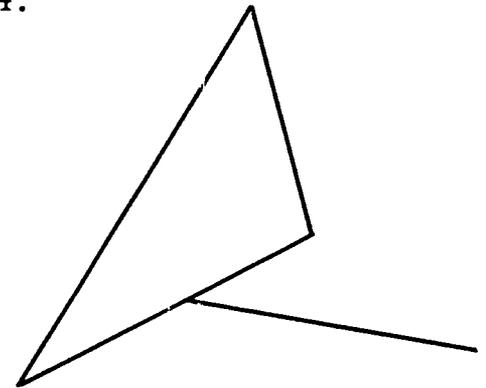
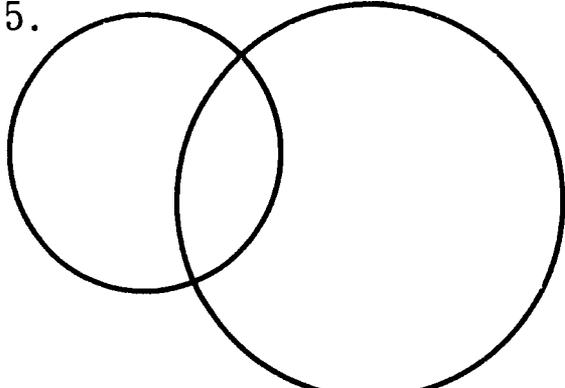
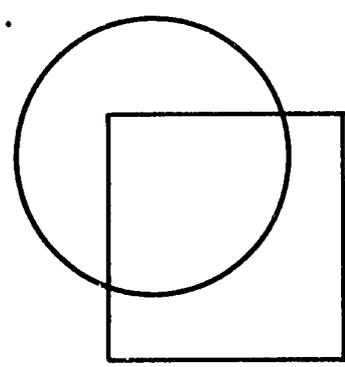
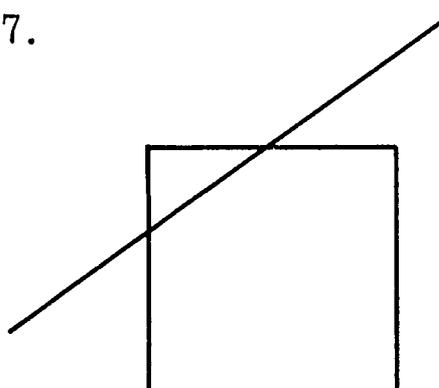
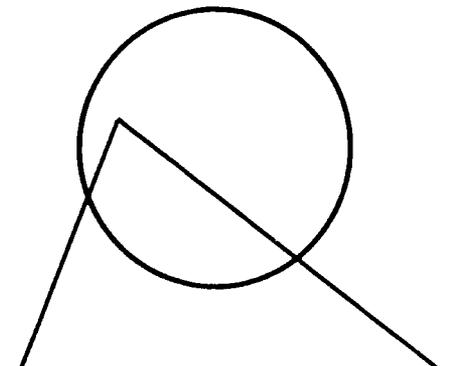
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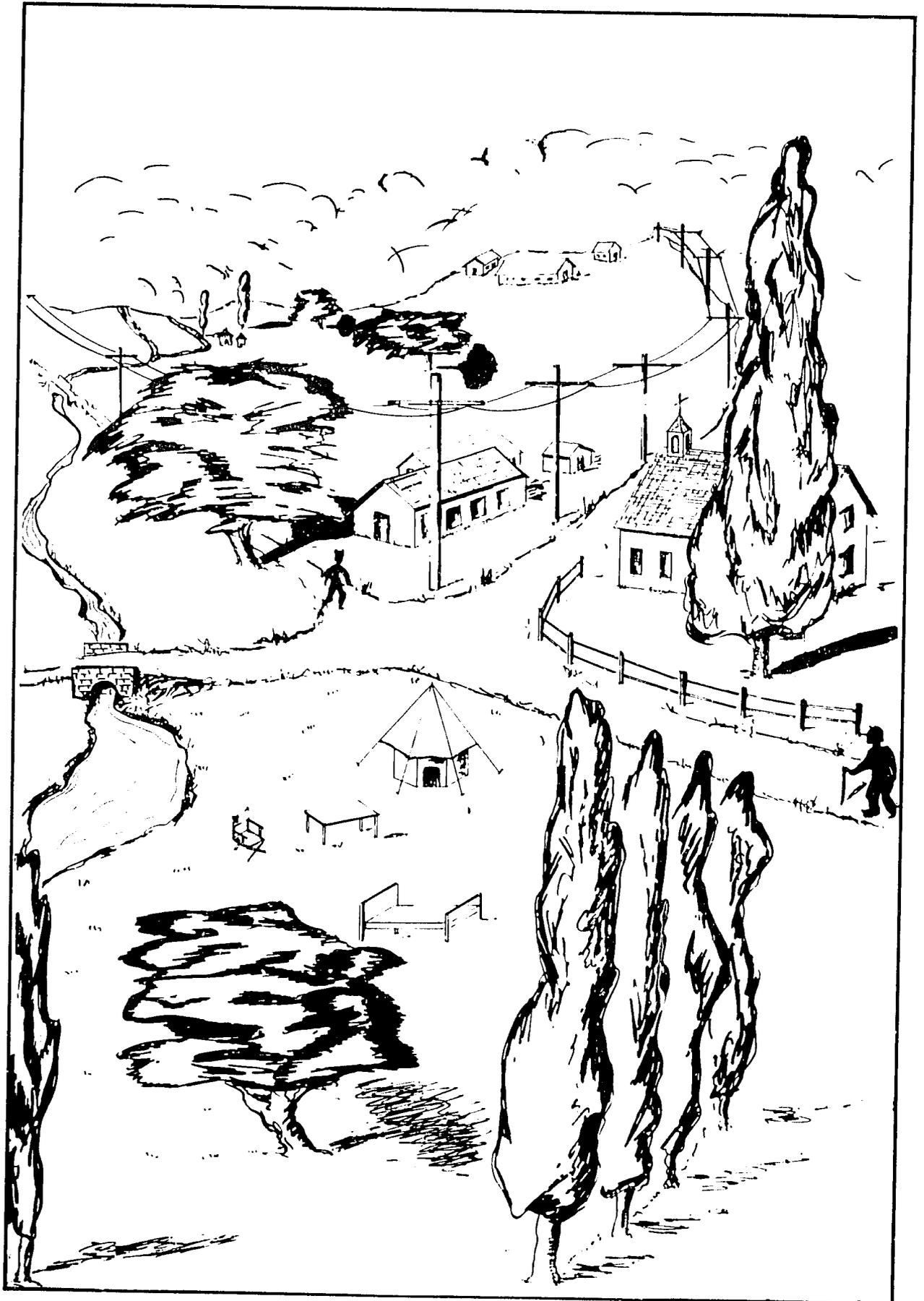


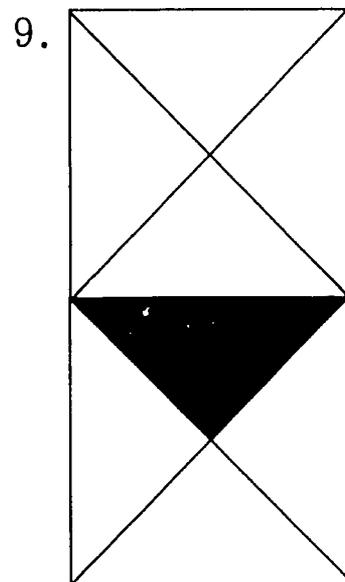
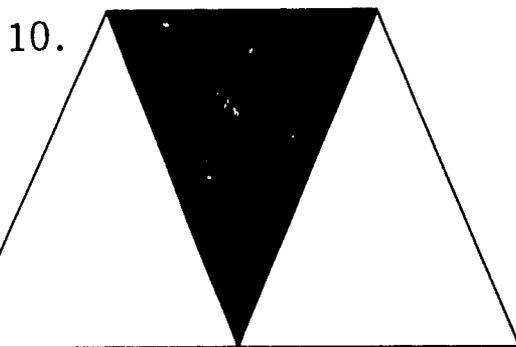
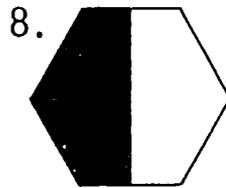
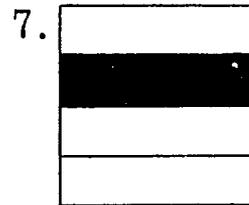
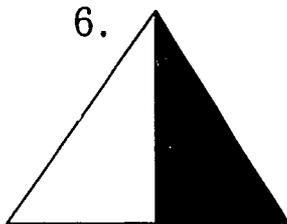
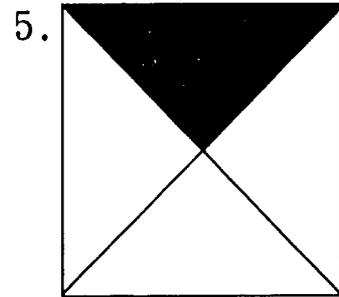
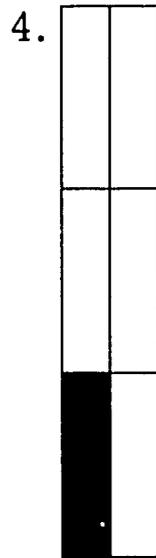
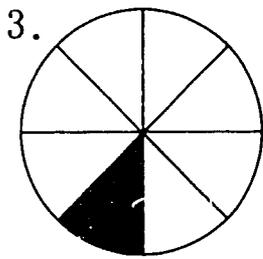
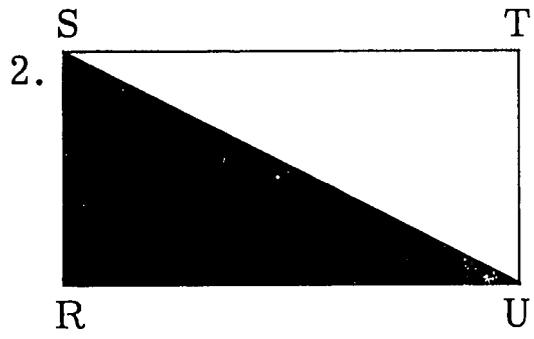
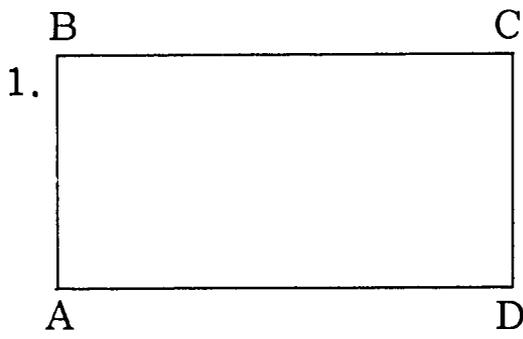




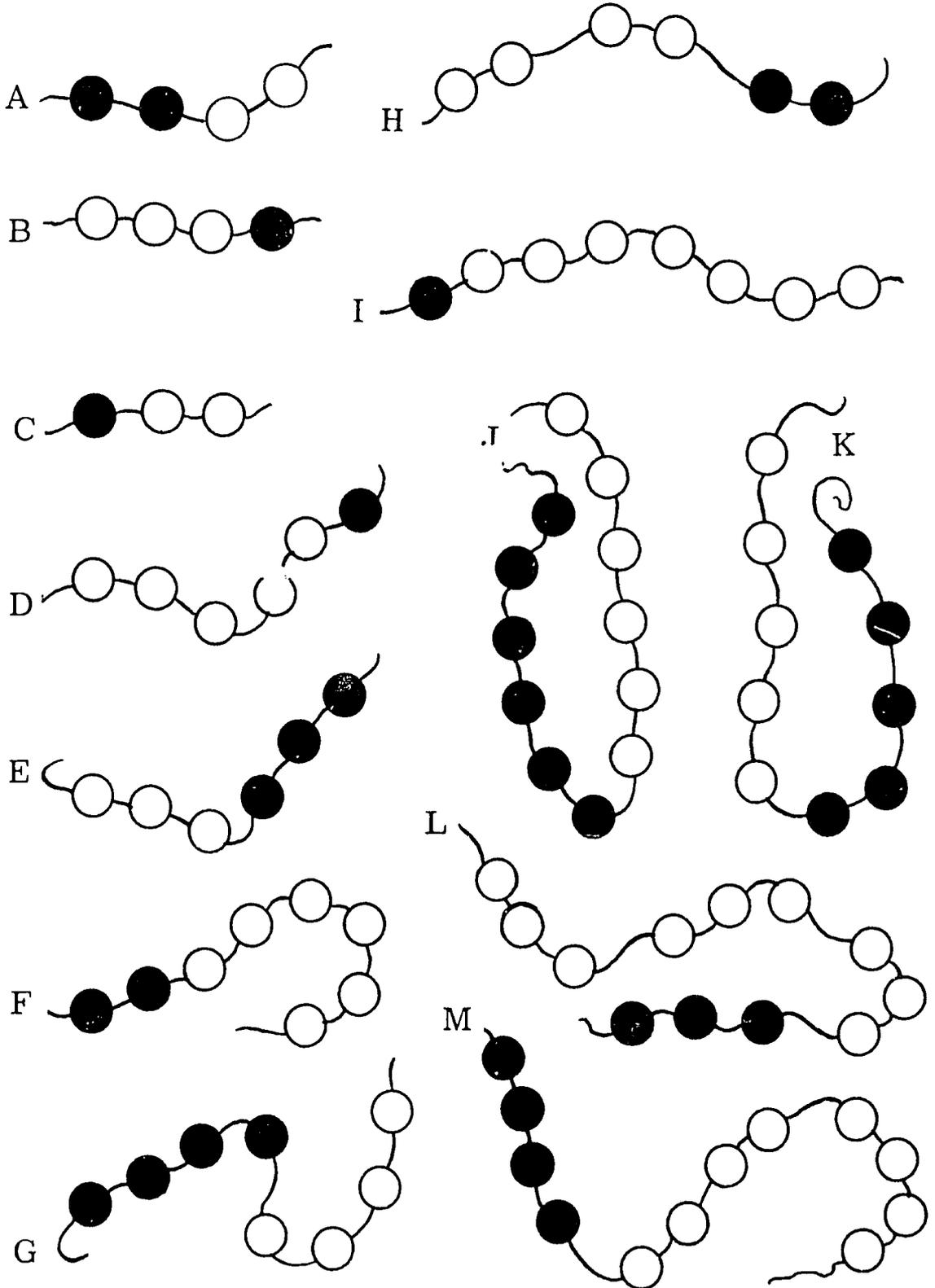
		
		
		
		

1. 	2. 
3. 	4. 
5. 	6. 
7. 	8. 





What part of the whole set is
the subset of black beads?



Which number is greater?

Which number is less?

Which numbers are equal?

Make the sentences true.

1. $\frac{1}{3}$ $\frac{1}{6}$

2. $\frac{1}{3}$ $\frac{1}{2}$

3. $\frac{1}{8}$ $\frac{1}{2}$

4. $\frac{1}{8}$ $\frac{1}{8}$

5. $\frac{1}{4}$ $\frac{1}{6}$

6. $\frac{1}{4}$ $\frac{1}{8}$

7. $\frac{1}{2}$ $\frac{1}{3}$

8. $\frac{1}{4}$ $\frac{1}{3}$

9. $\frac{1}{6}$ $\frac{1}{3}$

10. $\frac{1}{3}$ $\frac{1}{3}$

11. $\frac{1}{6}$ $\frac{1}{4}$

12. $\frac{1}{6}$ $\frac{1}{4}$

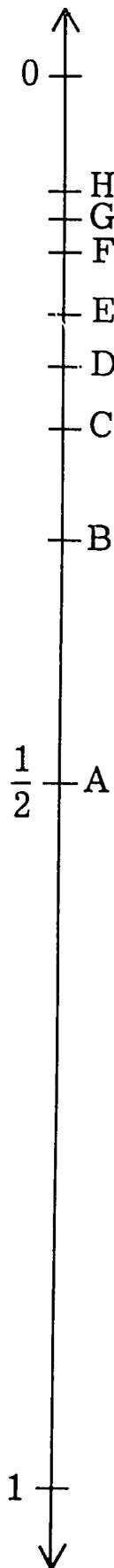
13. $\frac{1}{4}$ $\frac{1}{2}$

14. $\frac{1}{8}$ $\frac{1}{6}$

15. $\frac{1}{8}$ $\frac{1}{3}$

16. $\frac{1}{2}$ $\frac{1}{4}$

Name the points on the number line.



Point A is . $\frac{1}{3} <$

Point B is . $\frac{1}{12} <$ $< \frac{1}{8}$

Point C is

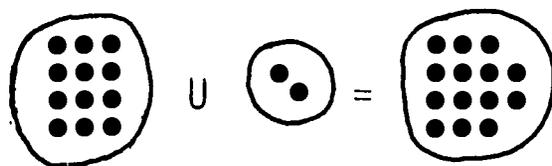
Point D is . $\frac{1}{2} <$

Point E is . $\frac{1}{4} >$

Point F is

Point G is . $\frac{1}{3} >$ $> \frac{1}{8}$

Point H is . $\frac{1}{12} >$



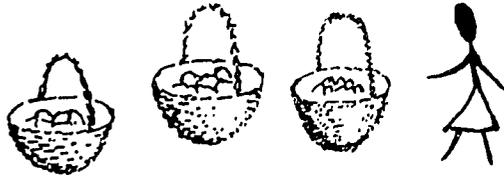
$$(4 \times 3) + 2 = 14$$

1. $(3 \times 2) + a = 8$ a is _____.	9. $21 = (r \times r) + 5$ r is _____.
2. $(4 \times c) + 5 = 13$ c is _____.	10. $(2 \times 3) + b = 8$ b is _____.
3. $5 + (e \times 5) = 10$ e is _____.	11. $(d \times 4) + 5 = 13$ d is _____.
4. $19 = (6 \times 3) + g$ g is _____.	12. $5 + (5 \times f) = 20$ f is _____.
5. $j = (8 \times 4) + 13$ j is _____.	13. $21 = (6 \times h) + 3$ h is _____.
6. $41 = (m \times 5) + 1$ m is _____.	14. $41 = (7 \times k) + 6$ k is _____.
7. $56 = (2 \times 8) + p$ p is _____.	15. $18 = (t \times t) + 2$ t is _____.
8. $(5 \times s) + s = 24$ s is _____.	16. $(n + 3) + n = 7$ n is _____.

< or > or =

1. $(4 + 2) + 2$ $4 + (2 + 2)$
2. $(4 \times 2) \times 2$ $4 \times (2 \times 2)$
3. $(4 - 2) - 2$ $4 - (2 - 2)$
4. $(4 \div 2) \div 2$ $4 \div (2 \div 2)$
5. $(3 + 2) + 1$ $3 - (2 - 1)$
6. $(8 \div 4) \div 2$ $8 \div (4 \div 2)$
7. $(16 \div 4) \div 2$ $16 \div (4 \div 2)$
8. $(20 - 10) - 8$ $20 - (10 - 8)$
9. $(2 \times 2) \times 3$ $2 \times (2 \times 3)$
10. $(3 - 2) - 1$ $3 - (2 - 1)$
11. $4 \times (5 + 2)$ $(4 \times 5) + (4 \times 2)$
12. $4 \times (5 + 2)$ $(4 \times 5) + 2$
13. $(3 \times 2) + (3 \times 3)$ $3 \times (2 + 3)$

1.



Mary has 3 baskets. There are 6 eggs in each basket. Here is a sentence about Mary's eggs.

$$3 \times 6 = n$$

What number does n stand for to make the sentence true?

n is _____.

Mary has _____ eggs.

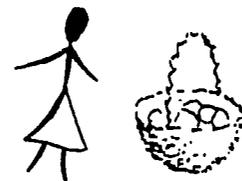
2. Grace gives 7 more eggs to Mary. Here is a sentence about the number of eggs Mary has now.

$$(3 \times 6) + 7 = m.$$

What number does m stand for to make the sentence true?

m is _____.

Now Mary has _____ eggs.



3. John has 5 bunches of bananas. There are 10 bananas in each bunch. Write a sentence about John's bananas.

$$a = _ \times _$$

John eats 8 of his bananas. Write a sentence about the number of bananas John has left.

$$b = (_ \times _) - _$$

b is _____.

John has _____ bananas left.

4. There are 7 branches on a tree. Five birds are sitting on each branch. Eight birds fly away.
Write a sentence about the number of birds left.

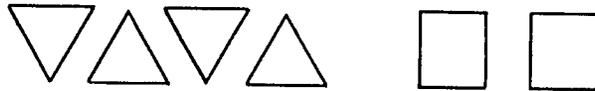
$$d = (__ \times __) - __.$$

What number does d stand for to make the sentence true?

d is .

There are birds left.

5.



Each of these triangles has 3 sides.
Each of these squares has 4 sides.
Write a sentence about the number of sides.

$$(__ \times __) + (__ \times __) = g.$$

What number makes the sentence true?

g is .

There are sides.

6. Ben goes fishing on 4 days. He catches 8 fish each day. James goes fishing on 2 days. He catches 5 fish each day. How many fish are caught?
Write a sentence about the number of fish caught.

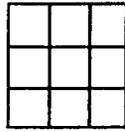
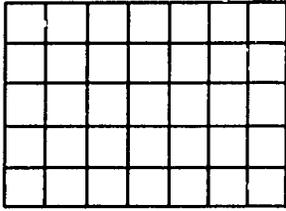
$$(__ \times __) + (__ \times __) = b.$$

What number makes the sentence true?

b is .

They caught fish.

7. Write a sentence about the number of small squares you see.



$$s = (__ \times __) + (__ \times __).$$

s is _____.

There are _____ small squares.

8. How many legs have 7 cows and 4 hens?
Write a sentence about the number of legs.

$$(__ \times __) + (__ \times __) = l.$$

What number does l stand for to make the sentence true?

l is _____.

The animals have _____ legs.

9. Four boys shared 24 marbles equally. John lost 2 of his marbles. Write a sentence about the number of marbles that John has left.

$$(24 \div __) - __ = x.$$

What number does x stand for to make the sentence true?

x is _____.

John has _____ marbles left.

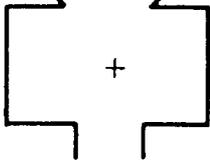
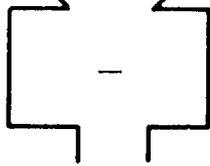
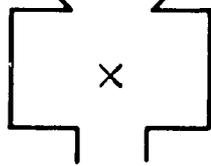
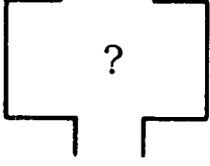
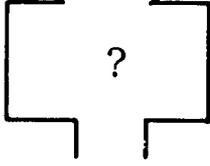
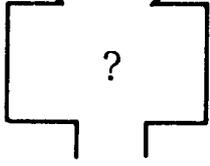
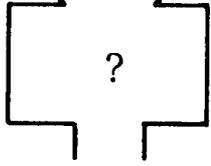
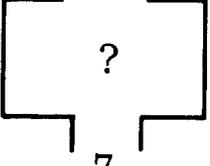
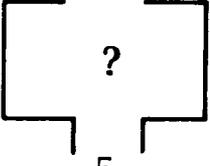
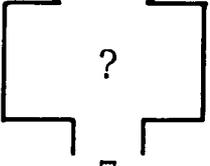
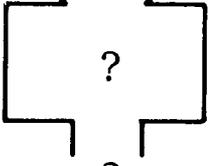
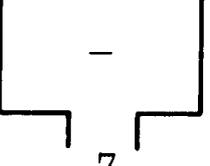
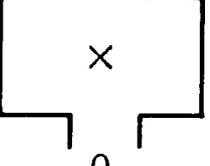
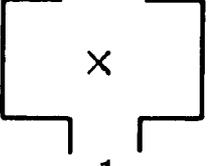
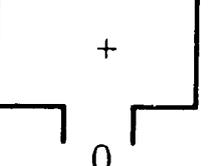
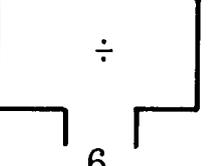
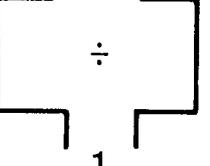
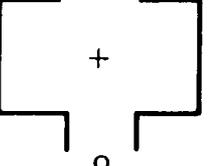
10. Two boys catch 24 fish. They give 6 fish to a friend. They share the rest of the fish equally. Write a sentence about the number of fish each boy has.

$$p = (__ - __) \div __.$$

What number does p stand for to make the sentence true?

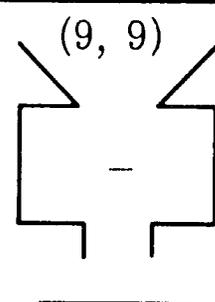
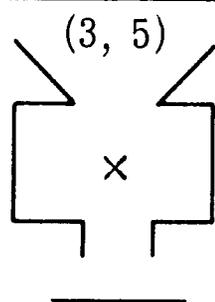
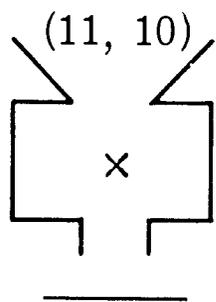
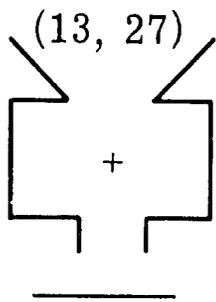
p is _____.

Each boy has _____ fish.

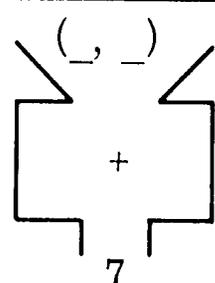
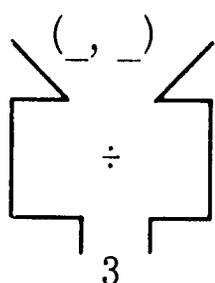
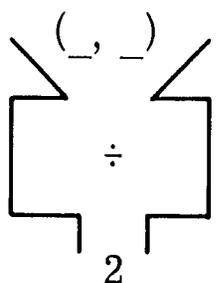
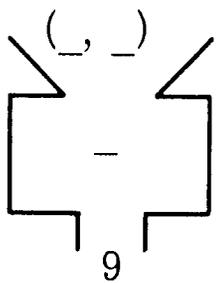
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2.	$(18, 9)$  9	$(6, 2)$  12	$(8, 4)$  4	$(6, 0)$  0
3.	$(1, 7)$  7	$(5, 0)$  5	$(7, 1)$  7	$(4, 2)$  2
4.	$(_, _)$  7	$(_, _)$  0	$(_, _)$  0	$(_, _)$  1
5.	$(_, _)$  0	$(_, _)$  6	$(_, _)$  1	$(_, _)$  8

Operation Machines

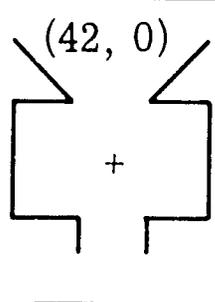
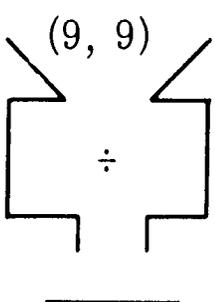
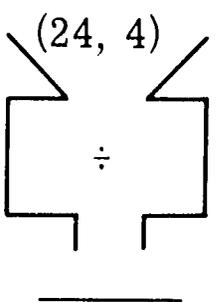
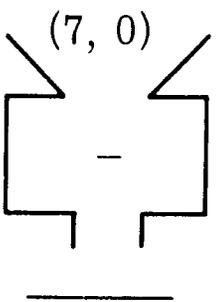
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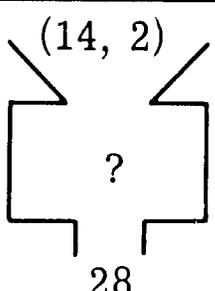
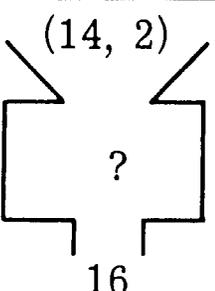
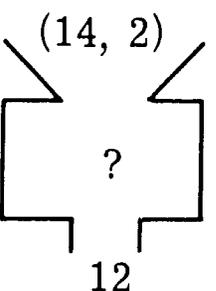
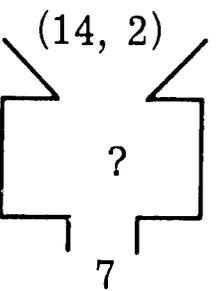
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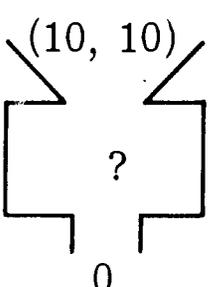
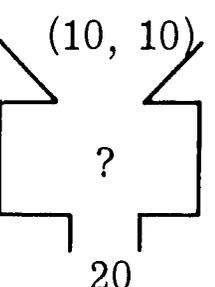
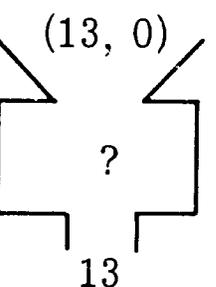
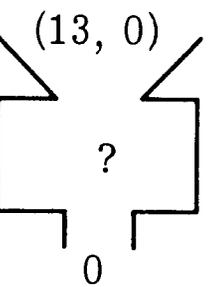
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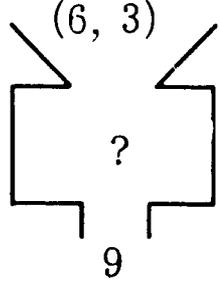
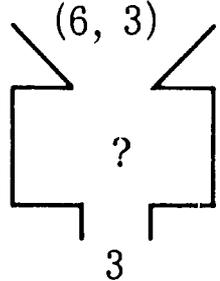
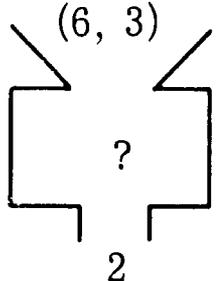
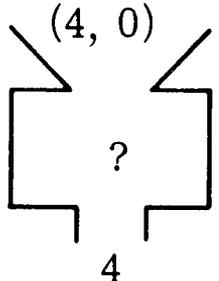
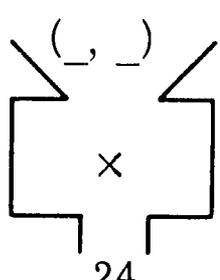
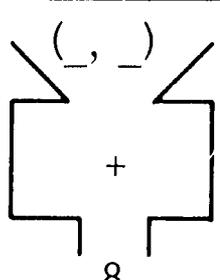
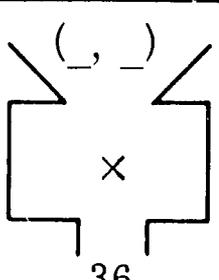
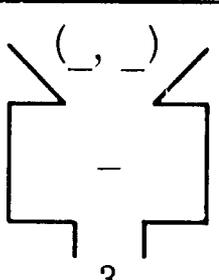
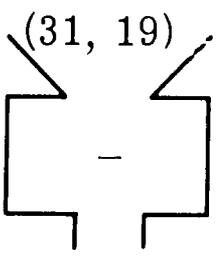
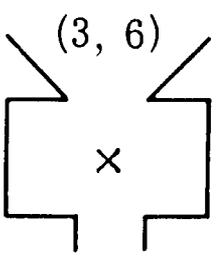
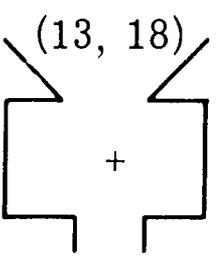
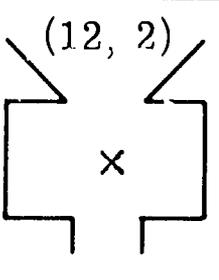
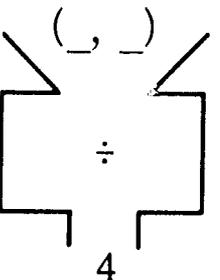
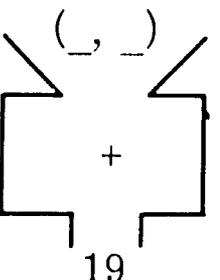
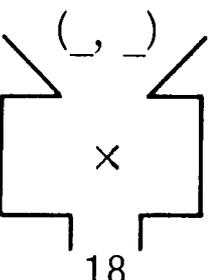
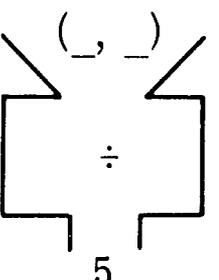
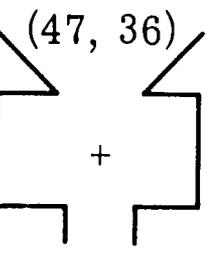
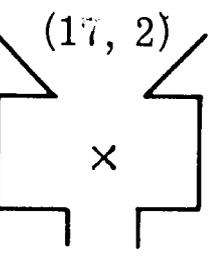
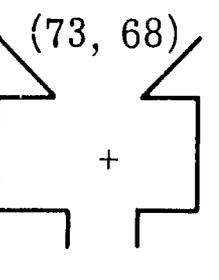
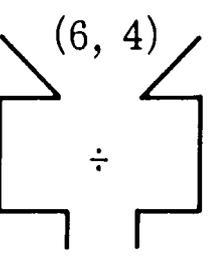


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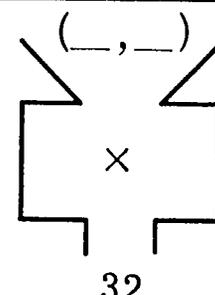
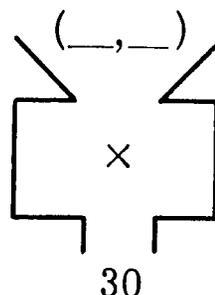
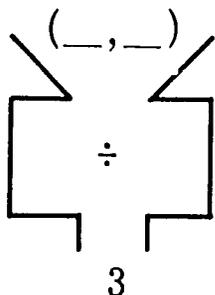
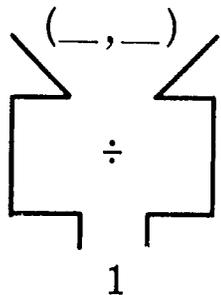
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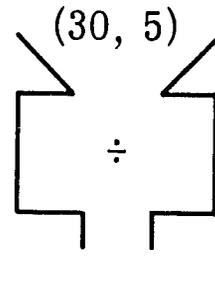
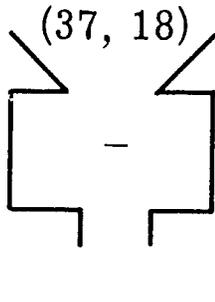
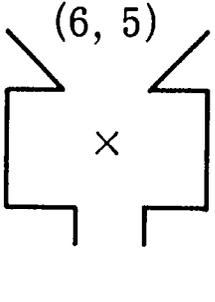
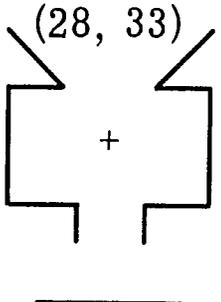
Operation Machines				
1.	$(6, 3)$  ? 9	$(6, 3)$  ? 3	$(6, 3)$  ? 2	$(4, 0)$  ? 4
2.	$(_, _)$  × 24	$(_, _)$  + 8	$(_, _)$  × 36	$(_, _)$  - 3
3.	$(31, 19)$  - _____	$(3, 6)$  × _____	$(13, 18)$  + _____	$(12, 2)$  × _____
4.	$(_, _)$  ÷ 4	$(_, _)$  + 19	$(_, _)$  × 18	$(_, _)$  ÷ 5
5.	$(47, 36)$  + _____	$(17, 2)$  × _____	$(73, 68)$  + _____	$(6, 4)$  ÷ _____

Operation Machines

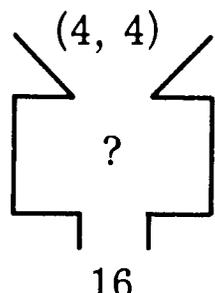
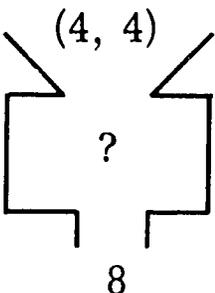
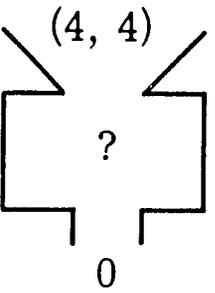
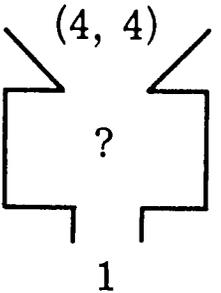
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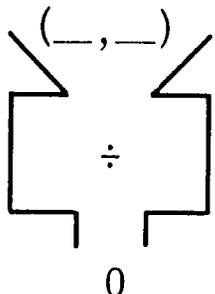
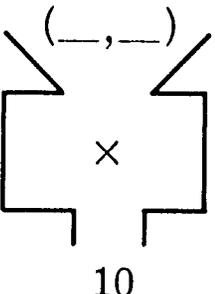
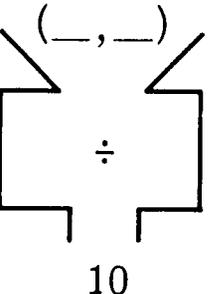
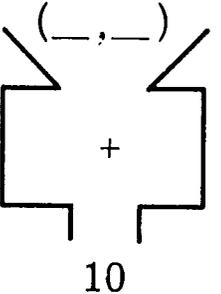
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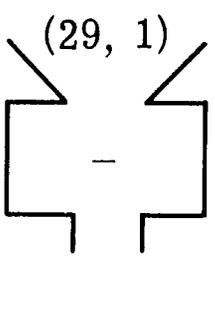
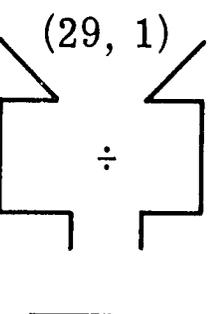
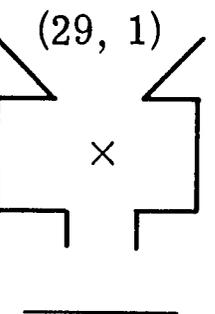
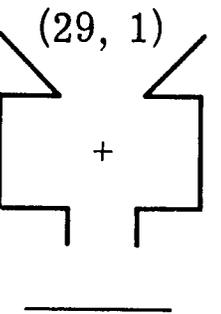
3.



4.



5.



Find the number that makes the sentence true.

1. $3 \times 4 = 4 \times n$, n is _____.
2. $5 + t = 7 + 5$, t is _____.
3. $3 + 9 = 2 \times a$, a is _____.
4. $1 \times 8 = y \times 1$, y is _____.
5. $5 \times 6 = 16 + c$, c is _____.
6. $d \times 9 = 9 \times 0$, d is _____.
7. $(4 + 6) + 8 = 3 \times b$, b is _____.
8. $(2 + s) + 0 = 3 \times 6$, s is _____.
9. $w \times 18 = 18 \times 2$, w is _____.
10. $5 + g = 2 + 7$, g is _____.
11. $31 + 8 = 8 + m$, m is _____.
12. $(3 + 6) + 2 = n + (3 + 6)$, n is _____.
13. $(3 + 5) + 4 = 12 + h$, h is _____.

What number makes the sentence true?

1. $(2 + 4) + 6 = 2 + (4 + n)$, n is _____.
2. $(7 - 3) - 1 = m - (3 - 1)$, m is _____.
3. $(4 \times 1) \times a = 4 \times (1 \times 3)$, a is _____.
4. $(16 \div 4) \div 2 = b \div (4 \div 2)$, b is _____.
5. $(v + 3) + 7 = 6 + (3 + 7)$, v is _____.
6. $(3 \times w) \times 2 = 3 \times (5 \times 2)$, w is _____.
7. $(6 \times 3) = y \times 6$, y is _____.
8. $(1 \times 5) \times 4 = 1 \times (r \times 4)$, r is _____.
9. $1 + 7 = z \times 1$, z is _____.
10. $(f \times 1) \times 8 = 2 \times (1 \times 8)$, f is _____.
11. $g + 8 = 8 + 7$, g is _____.
12. $(c + 4) + 7 = 6 + (4 + 7)$, c is _____.
13. $3 \times (2 + 5) = (3 + 2) + n$, n is _____.

True or false?

1. $3 + 0 = 3$

7. $43 + 0 = 43$

2. $4 + 7 = 7 + 5$

8. $685 = 685 \times 1$

3. $1 \times 73 = 73$

9. $0 \times 5 = 5 \times 1$

4. $0 \times 20 = 30$

10. $63 \div 3 = 3 \times 7$

5. $5 \times 8 = 8 \times 5$

11. $2 \times 3 \times 5 = 90 \div 3$

6. $1 \times 12 = 12$

12. $35 + 62 = 62 + 35$

13. $5 \times (4 + 3) = (5 \times 4) + (5 \times 3)$

14. $5 \times (4 + 3) = (5 + 4) \times 3$

15. $(4 \times 3) \times 3 = 4 \times (3 \times 3)$

16. $3 + (2 + 12) = (3 + 2) + 12$

17. $2 \times (3 \times 4) \times 5 = 2 \times 7 \times 5$

18. $(3 + 6) \times 7 = 3 \times (6 + 7)$

What number makes the sentence true?

1. $3 + 17 = n + 3$, n is _____.
2. $a + 82 = 82$, a is _____.
3. $2 + (8 + t) = (2 + 8) + 12$, t is _____.
4. $14 \times b = 14$, b is _____.
5. $24 \times v = 2 \times 24$, v is _____.
6. $(14 + 2) \times 2 = w + (2 \times 2)$, w is _____.
7. $n \times 8 = 8$, n is _____.
8. $9 + a = 0$, a is _____.
9. $(4 + 2) \times 3 = (4 + 2) \times c$, c is _____.
10. $(5 \times 2) \times 3 = s \times (2 \times 3)$, s is _____.
11. $a + (3 \times 2) = (100 \times 3) \times 2$, a is _____.
12. $n \times 1 = 5 \times 0$, n is _____.

Write the simplest numeral for each.

1. $3 + (5 \times 2)$

7. $(7 \times 2) \times 2$

2. $(3 + 5) \times 2$

8. $7 \times (2 + 2)$

3. $(100 \div 10) \times (50 \div 5)$

9. $2 \times (4 + 3) \times 3$

4. $(80 - 20) \times (25 \div 5)$

10. $(2 \times 4) + (3 \times 3)$

5. $(4 + 6) \times 7$

11. $(5 + 4) \times 3$

6. $(4 \times 7) + (6 \times 7)$

12. $(5 \times 3) + (4 \times 3)$

13. $3 + (5 \times 2) + 4$

14. $(3 + 5) \times (2 + 4)$

15. $(3 \times 2) + (5 \times 2) + (3 \times 4) + (5 \times 4)$

16. $(6 \times 2) + (3 \times 4) + (12 \times 1) + (24 \div 2)$

17. $(8 \times 5) \times (10) \times 3$

18. $8 + (5 \times 10) \times 3$

Write the simplest numeral for each.

1. $(2 \times 3) + 3$

7. $(8 \times 4) - (2 \times 2)$

2. $(2 + 3) \times (4 + 3)$

8. $8 \times (4 - 2) \times 2$

3. $(8 + 4) - (3 + 4)$

9. $(20 - 10) - (8 - 2)$

4. $8 + (4 - 3) + 4$

10. $20 - (10 - 8) - 2$

5. $(6 + 3) \div 3$

11. $(100 \div 50) \div (10 \div 5)$

6. $(6 \div 3) + (3 \div 3)$

12. $100 \div (50 \div 10) \div 5$

13. $(2 + 3) + (2 + 3) + (2 + 3)$

14. $(2 \times 3) + (2 \times 3) + (2 \times 3)$

15. $(2 \times 3) + (2 + 3) \times (1 + 0)$

16. $(5 \times 0) + (6 \times 0) + (7 \div 1)$

Sentences for Story Problems

1. There are two boxes on a table. In one box are three rows of 6 sweets each. In the other box are three rows of 4 sweets each.

How many sweets are in the two boxes?

$$(__ \times __) + (__ \times __) = n; \quad __ \times (__ + __) = n$$

$$(__ \times __) + (__ \times __) = __ \times (__ + __)$$

2. Mary put 2 rings on each finger of her left hand. She put 2 rings on each finger on her right hand.

How many rings did she put on her fingers?

$$(__ \times __) + (__ \times __) = r; \quad __ \times (__ + __) = r$$

$$(__ \times __) + (__ \times __) = __ \times (__ + __)$$

3. In my garden there are 5 rows of coffee trees with 3 trees in each row. There are 5 more rows of coffee trees with 4 trees in each row.

How many coffee trees are in my garden?

$$(__ \times __) + (__ \times __) = t; \quad __ \times (__ + __) = t$$

$$(__ \times __) + (__ \times __) = __ \times (__ + __)$$

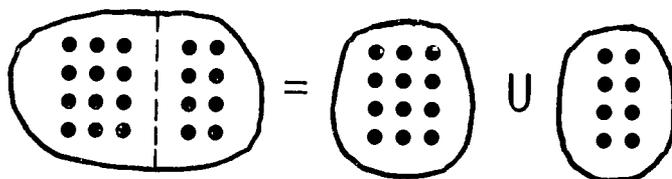
4. There are 4 bicycles in one house and 5 bicycles in another house. How many wheels are on all of these bicycles?

$$(__ \times __) + (__ \times __) = w; \quad __ \times (__ + __) = w$$

$$(__ \times __) + (__ \times __) = __ \times (__ + __)$$

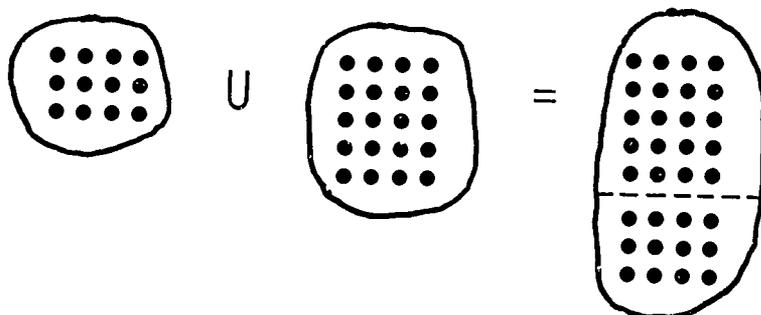
Write sentences for the arrays of dots.

1.



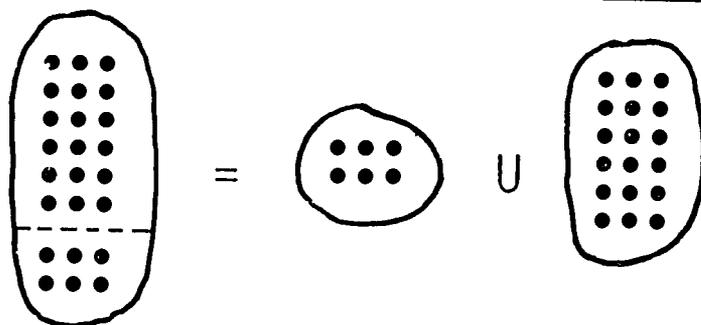
$$\underline{\quad} \times (\underline{\quad} + \underline{\quad}) = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad})$$

2.



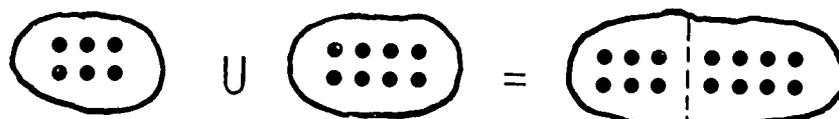
$$(\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) = (\underline{\quad} + \underline{\quad}) \times \underline{\quad}$$

3.



$$(\underline{\quad} + \underline{\quad}) \times \underline{\quad} = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad})$$

4.



$$(\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) = \underline{\quad} \times (\underline{\quad} + \underline{\quad})$$

Use the distributive property.

1. $2 \times (3 + 5) =$

2. $(3 \times 4) + (2 \times 4) =$

3. $(3 \times 2) + (3 \times 5) =$

4. $(2 + 6) \times 3 =$

5. $(6 \times 4) + (4 \times 4) =$

6. $(3 \times 2) + (3 \times 3) =$

7. $(1 \times 6) + (3 \times 6) =$

8. $5 \times (7 \times 3) =$

9. $(5 \times 7) + (5 \times 3) =$

10. $(4 + 0) \times 5 =$

What number makes the sentence true?

1. $(4 + 3) \times t = (4 \times 2) + (3 \times 2)$, t is _____.
2. $(3 \times m) + (5 \times 4) = (3 + 5) \times 4$, m is _____.
3. $4 \times (3 + a) = (4 \times 3) + (4 \times 5)$, a is _____.
4. $(4 + 2) \times (4 + b) = 4 + (2 \times 10)$, b is _____.
5. $(3 \times 6) + (2 \times c) = (3 + 2) \times 6$, c is _____.
6. $(3 \times 4) + (6 \times 4) = (3 + 6) \times s$, s is _____.
7. $4 \times (2 + 7) = (4 \times w) + (4 \times 7)$, w is _____.
8. $7 \times (1 + 3) = (7 \times r) + (7 \times 3)$, r is _____.
9. $(3 \times n) + (7 \times n) = (3 + 7) \times 4$, n is _____.
10. $(6 \times 3) + 2 = (v + 2) \times (3 + 2)$, v is _____.

1. $\begin{array}{r} 63 \\ +65 \\ \hline \end{array}$	2. $\begin{array}{r} 23 \\ +71 \\ \hline \end{array}$	3. $\begin{array}{r} 51 \\ +58 \\ \hline \end{array}$	4. $\begin{array}{r} 64 \\ +53 \\ \hline \end{array}$
5. $\begin{array}{r} 84 \\ + 2 \\ \hline \end{array}$	6. $\begin{array}{r} 60 \\ -40 \\ \hline \end{array}$	7. $\begin{array}{r} 4 \\ +75 \\ \hline \end{array}$	8. $\begin{array}{r} 93 \\ +36 \\ \hline \end{array}$

9. Mr. Moono has 83 bags of maize. Mr. Chirwa has 32 bags of maize. How many bags of maize do they have together?
10. What is the sum of ninety-one and ninety-four?
11. What is 21 plus 86?
12. What is the total of eighty-one and eighty-seven?
13. Add 92 to 25. 14. Add 82 and 92.

Make the sentences true.

- | | |
|-------------------|-------------------|
| 15. $72 + 31 = n$ | 19. $74 + 43 = y$ |
| 16. $11 + 91 = p$ | 20. $n = 53 + 76$ |
| 17. $84 - 64 = t$ | 21. $93 + 55 = z$ |
| 18. $n = 53 + 83$ | 22. $47 + 82 = m$ |

1.

$$\begin{array}{r} 37 \\ +42 \\ \hline \end{array}$$

2.

$$\begin{array}{r} 41 \\ +85 \\ \hline \end{array}$$

3.

$$\begin{array}{r} 49 \\ +90 \\ \hline \end{array}$$

4.

I have 16 books. My sister has 12 more books than I have. How many books does my sister have?

5. $83 + 25 = \square$

8.
$$\begin{array}{r} 63 \\ +45 \\ \hline \end{array}$$

6. $22 + 92 = \square$

7. $70 - 30 = \square$

9.
$$\begin{array}{r} 30 \\ +90 \\ \hline \end{array}$$

10.

In a school there are 86 boys and 53 girls.
How many pupils are in the school?

11.

Mukasa planted 24 coffee trees on Tuesday. He planted 35 coffee trees on Wednesday. How many coffee trees did he plant on both days?

Make the sentences true.

1. $72 + 97 = y$

4. $k = 32 + 84$

2. $m = 92 + 66$

5. $100 - 50 = n$

3. $65 + 74 = \square$

6. $\square = 85 + 72$

7.
$$\begin{array}{r} 300 \\ +200 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 542 \\ +347 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 456 \\ +123 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 602 \\ +151 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 431 \\ +241 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 700 \\ -400 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 132 \\ +812 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 495 \\ +501 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 863 \\ -863 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 728 \\ +261 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 343 \\ +635 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 706 \\ +182 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 231 \\ +534 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 125 \\ +730 \\ \hline \end{array}$$

21.
$$\begin{array}{r} 500 \\ +500 \\ \hline \end{array}$$

22.
$$\begin{array}{r} 121 \\ +246 \\ \hline \end{array}$$

1. $\begin{array}{r} 3 \\ 4 \\ \hline 2 \end{array}$	2. $\begin{array}{r} 9 \\ 5 \\ \hline 4 \end{array}$	3. $\begin{array}{r} 40 \\ 10 \\ \hline 30 \end{array}$	4. $\begin{array}{r} 85 \\ 30 \\ \hline 20 \end{array}$	5. $\begin{array}{r} 90 \\ 7 \\ \hline 82 \end{array}$
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6. $\begin{array}{r} 41 \\ 17 \\ \hline 60 \end{array}$	7. $\begin{array}{r} 35 \\ 92 \\ \hline 50 \end{array}$	8. $\begin{array}{r} 82 \\ 34 \\ \hline 53 \end{array}$	9. $\begin{array}{r} 400 \\ 800 \\ \hline 500 \end{array}$	10. $\begin{array}{r} 425 \\ 3 \\ \hline 61 \end{array}$
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11. Elias has 9 books, Samuel has 8 books and Dominic has 7 books. How many books do they have altogether?

12. Toni has 41 beads, Mary has 20 beads and Edith has 47 beads. How many beads do they have altogether?

Make the sentences true.

13. $45 + 53 + 71 = n$

18. $14 + 44 + 51 = m$

14. $24 + 23 + 61 = g$

19. $42 + 93 + 53 = \square$

15. $t = 21 + 33 + 53$

20. $45 + 82 + 55 = k$

16. $54 + 82 + 43 = y$

21. $\square = 422 + 573 + 604$

17. $z = 32 + 42 + 32$

22. $431 + 833 + 36 = \square$

$$\begin{array}{r} 1. \quad 11 \\ \quad 31 \\ \quad +21 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 41 \\ \quad \quad 1 \\ \quad +32 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 21 \\ \quad \quad 3 \\ \quad +61 \\ \hline \end{array}$$

4. A father gave his daughter 21 shillings to buy food at school, 24 shillings to buy books and 11 shillings for bus fare. How many shillings did the father give his daughter?
-

$$\begin{array}{r} 5. \quad 21 \\ \quad 23 \\ \quad + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 3 \\ \quad 61 \\ \quad +14 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 51 \\ \quad 14 \\ \quad +33 \\ \hline \end{array}$$

8. Three fishermen went to catch fish at the river. One caught 3 fish, another caught 4 fish and the other caught 2 fish. How many fish did they catch?
-

9. I bought a shirt for 14 shillings, shorts for 12 shillings and a dress for 42 shillings. How many shillings did I spend?
-

$$\begin{array}{r} 1. \quad 76 \\ \quad 21 \\ \quad \underline{12} \end{array}$$

$$\begin{array}{r} 2. \quad 83 \\ \quad 34 \\ \quad \underline{62} \end{array}$$

$$\begin{array}{r} 3. \quad 62 \\ \quad 74 \\ \quad \underline{31} \end{array}$$

$$\begin{array}{r} 4. \quad 92 \\ \quad 63 \\ \quad \underline{44} \end{array}$$

$$\begin{array}{r} 5. \quad 41 \\ \quad 57 \\ \quad \underline{41} \end{array}$$

$$\begin{array}{r} 6. \quad 46 \\ \quad 61 \\ \quad \underline{41} \end{array}$$

$$\begin{array}{r} 7. \quad 85 \\ \quad 41 \\ \quad \underline{41} \end{array}$$

$$\begin{array}{r} 8. \quad 41 \\ \quad 93 \\ \quad \underline{65} \end{array}$$

$$\begin{array}{r} 9. \quad 42 \\ \quad 51 \\ \quad \underline{51} \end{array}$$

Some countries use shillings and pence for money. There you can buy the same thing for 12 pence that you can buy for 1 shilling.

In the following exercises, give the answers in shillings and pence.

$$\begin{array}{r} 10. \quad \text{s.} \quad \text{d.} \\ \quad \quad \quad 2 \\ \quad \quad \quad 5 \\ + \quad \quad \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad \text{s.} \quad \text{d.} \\ \quad \quad \quad 6 \\ \quad \quad \quad 5 \\ + \quad \quad \quad 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad \text{s.} \quad \text{d.} \\ \quad \quad \quad 1 \quad 6 \\ - \quad \quad \quad \quad 8 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad \text{s.} \quad \text{d.} \\ \quad \quad \quad 1 \quad 3 \\ \quad \quad \quad \quad 4 \\ + \quad \quad \quad \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad \text{s.} \quad \text{d.} \\ \quad \quad \quad 2 \quad 6 \\ \quad \quad \quad 1 \quad 1 \\ +1 \quad \quad \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad \text{s.} \quad \text{d.} \\ \quad \quad \quad 16 \quad 7 \\ -10 \quad \quad 11 \\ \hline \end{array}$$

1.	$\begin{array}{r} 32 \\ +48 \\ \hline \end{array}$	2.	$\begin{array}{r} 63 \\ +19 \\ \hline \end{array}$	3.	$\begin{array}{r} 25 \\ +68 \\ \hline \end{array}$	4.	$\begin{array}{r} 59 \\ +48 \\ \hline \end{array}$	5.	$\begin{array}{r} 17 \\ - 9 \\ \hline \end{array}$
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6. Mr. Mwanza has 28 cows and Mr. Ambali has 36 cows. How many cows do they have together?

7. Mr. Tembo counted 18 girls and 24 boys in his classroom. How many pupils are in Mr. Tembo's classroom?

8.	$\begin{array}{r} 38 \\ +63 \\ \hline \end{array}$	9.	$\begin{array}{r} 57 \\ +29 \\ \hline \end{array}$	10.	$\begin{array}{r} 60 \\ -40 \\ \hline \end{array}$	11.	$\begin{array}{r} 57 \\ +58 \\ \hline \end{array}$	12.	$\begin{array}{r} 79 \\ -49 \\ \hline \end{array}$
13.	$\begin{array}{r} 58 \\ +79 \\ \hline \end{array}$	14.	$\begin{array}{r} 69 \\ +56 \\ \hline \end{array}$	15.	$\begin{array}{r} 47 \\ +96 \\ \hline \end{array}$	16.	$\begin{array}{r} 29 \\ + 2 \\ \hline \end{array}$	17.	$\begin{array}{r} 28 \\ +84 \\ \hline \end{array}$

Make the sentences true.

18. $221 + 129 = \square$

19. $379 + 413 = \square$

20. $\square = 117 + 353$

21. $215 + 268 = n$

22. $x = 327 + 236$

23. $364 + 329 = y$

$$\begin{array}{r} 1. \quad 618 \\ +158 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 159 \\ +769 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 206 \\ +394 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 681 \\ -100 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 176 \\ \quad 234 \\ +258 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 521 \\ \quad 372 \\ +84 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 400 \\ \quad 87 \\ +238 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 903 \\ \quad 5 \\ +92 \\ \hline \end{array}$$

9. Mrs. Okeke in Nigeria bought sugar for 10 pence, kerosene for 2 shillings 11 pence and a tin of milk for 1 shilling 9 pence. How much change did she get from 7 shillings 6 pence?

$$\begin{array}{r} 10. \quad 1345 \\ +1205 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 1309 \\ +2408 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 8327 \\ +1576 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 1448 \\ +3245 \\ \hline \end{array}$$

Make the sentences true.

$$14. \quad 2166 + 2362 = n$$

$$16. \quad 4721 + 1723 = b$$

$$15. \quad 3052 + 1075 = m$$

$$17. \quad 3868 + 3673 = y$$

Make the sentences true.

1.

$$n = 342 + 576 + 409$$

$$\begin{array}{r} 342 \\ 576 \\ +409 \\ \hline \end{array}$$

n is _____.

4.

$$528 + 962 + 403 = a$$

$$\begin{array}{r} 528 \\ 962 \\ +403 \\ \hline \end{array}$$

a is _____.

2.

$$p = 1246 + 2590 + 178$$

$$\begin{array}{r} 1246 \\ 2590 \\ + 178 \\ \hline \end{array}$$

p is _____.

5.

$$m = 1846 - 702$$

$$\begin{array}{r} 1846 \\ - 702 \\ \hline \end{array}$$

m is _____.

3.

$$1384 + 728 + 1589 = g$$

$$\begin{array}{r} 1384 \\ 728 \\ +1589 \\ \hline \end{array}$$

g is _____.

6.

$$b = 943 + 708 + 876$$

$$\begin{array}{r} 943 \\ 708 \\ +876 \\ \hline \end{array}$$

b is _____.

7. There are 256 pupils in Chunga School, 325 pupils in George School and 176 in Metero School. In all these schools there are _____ pupils.

Make the sentences true.

1.

$$n = 426 + 300 + 1245$$

$$\begin{array}{r} 426 \\ 300 \\ +1245 \\ \hline \end{array}$$

n is _____.

3.

$$p = 7245 + 3596$$

$$\begin{array}{r} 7245 \\ +3596 \\ \hline \end{array}$$

p is _____.

2.

$$75 + 128 + 802 = m$$

$$\begin{array}{r} 75 \\ 128 \\ +802 \\ \hline \end{array}$$

m is _____.

4.

$$p = 1245 - 123$$

$$\begin{array}{r} 1245 \\ - 123 \\ \hline \end{array}$$

p is _____.

5.

A farmer owned 925 sheep. He sold 502 of them. He said, "I now own ___ sheep."

6.

Mr. Fakoya read three books. The first had 728 pages. The second had 413 pages. The third book had 548. He said, "I have read all the ___ pages of the three books."

Make the sentences true.
Use the signs $>$, $<$ and $=$.

1. $40 + 30$ <u> </u> <u> </u> <u> </u> 70	6. $400 + 200$ <u> </u> <u> </u> <u> </u> 600
2. $42 + 35$ <u> </u> <u> </u> <u> </u> 75	7. $420 + 143$ <u> </u> <u> </u> <u> </u> 600
3. $42 + 35$ <u> </u> <u> </u> <u> </u> 80	8. $800 + 735$ <u> </u> <u> </u> <u> </u> 1500
4. $143 + 30$ <u> </u> <u> </u> <u> </u> 200	9. $52 + 59$ <u> </u> <u> </u> <u> </u> 100
5. $143 + 30$ <u> </u> <u> </u> <u> </u> 100	10. $52 + 59$ <u> </u> <u> </u> <u> </u> 200

11. $20 + 40 + 60$ 1200

12. $25 + 42 + 68$ 1200

13. $125 + 302 + 181$ 600

-
14. Ben has 12 books, Tani has 19 books and Modu has 31 books. The teacher said to the pupils, "This shelf holds 50 books. Put all of your books on the shelf."

Ben said, "We _____ put the books on the shelf because $12 + 19 + 31$ _____ 50."

Make the sentences true.

<p>1. $85 - 32 = n$</p> $\begin{array}{r} 85 \\ -32 \\ \hline \end{array}$ <p>n is _____.</p>	<p>4. $423 - 122 = p$</p> $\begin{array}{r} 423 \\ -122 \\ \hline \end{array}$ <p>p is _____.</p>	<p>7. $743 + 38 = b$</p> $\begin{array}{r} 743 \\ + 38 \\ \hline \end{array}$ <p>b is _____.</p>
<p>2. $374 - 104 = c$</p> $\begin{array}{r} 374 \\ -104 \\ \hline \end{array}$ <p>c is _____.</p>	<p>5. $5 + 8 + 12 = n$</p> $\begin{array}{r} 5 \\ 8 \\ +12 \\ \hline \end{array}$ <p>n is _____.</p>	<p>8. $d = 495 - 261$</p> $\begin{array}{r} 495 \\ -261 \\ \hline \end{array}$ <p>d is _____.</p>
<p>3. $806 - 500 = g$</p> $\begin{array}{r} 806 \\ -500 \\ \hline \end{array}$ <p>g is _____.</p>	<p>6. $m = 463 + 453$</p> $\begin{array}{r} 463 \\ +453 \\ \hline \end{array}$ <p>m is _____.</p>	<p>9. $g > 300 - 200$</p> $\begin{array}{r} 300 \\ -200 \\ \hline \end{array}$ <p>g is not _____.</p>

10. The teacher told John and Tom to subtract 132 from 536. John said, "The missing addend is 405." Tom said, "The missing addend is 406."

_____ is correct.

Make the sentences true.

<p>1.</p> $54 - 27 = n$ $\begin{array}{r} 54 \\ -27 \\ \hline \end{array}$ <p>n is _____.</p>	<p>4.</p> $54 + 27 = p$ $\begin{array}{r} 54 \\ +27 \\ \hline \end{array}$ <p>p is _____.</p>	<p>7.</p> $728 - 319 = r$ $\begin{array}{r} 728 \\ -319 \\ \hline \end{array}$ <p>r is _____.</p>
<p>2.</p> $a = 926 - 454$ $\begin{array}{r} 926 \\ -454 \\ \hline \end{array}$ <p>a is _____.</p>	<p>5.</p> $m > 720 - 260$ $\begin{array}{r} 720 \\ -260 \\ \hline \end{array}$ <p>m is not _____.</p>	<p>8.</p> $833 - 524 = b$ $\begin{array}{r} 833 \\ -524 \\ \hline \end{array}$ <p>b is _____.</p>
<p>3.</p> $h = 902 - 42$ $\begin{array}{r} 902 \\ - 42 \\ \hline \end{array}$ <p>h is _____.</p>	<p>6.</p> $12 + 19 + 32 = g$ $\begin{array}{r} 12 \\ 19 \\ +32 \\ \hline \end{array}$ <p>g is _____.</p>	<p>9.</p> $n = 1294 - 178$ $\begin{array}{r} 1294 \\ - 178 \\ \hline \end{array}$ <p>n is _____.</p>

10. A sign read, "Buy a bicycle for 280 shillings." Songa has 252 shillings. He said, "I need only _____ more shillings to buy the bicycle."

Make the sentences true.

1.

$$g = 704 - 146$$

$$\begin{array}{r} 704 \\ -146 \\ \hline \end{array}$$

g is _____.

4.

$$n > 425 - 185$$

$$\begin{array}{r} 425 \\ -185 \\ \hline \end{array}$$

n is not _____.

7.

$$1742 - 483 = a$$

$$\begin{array}{r} 1742 \\ - 483 \\ \hline \end{array}$$

a is _____.

2.

$$b = 1246 - 438$$

$$\begin{array}{r} 1246 \\ - 438 \\ \hline \end{array}$$

b is _____.

5.

$$425 + 1472 = t$$

$$\begin{array}{r} 425 \\ +1472 \\ \hline \end{array}$$

t is _____.

8.

$$m = 100 - 46$$

$$\begin{array}{r} 100 \\ - 46 \\ \hline \end{array}$$

m is _____.

3.

$$c = 1436 - 527$$

$$\begin{array}{r} 1436 \\ - 527 \\ \hline \end{array}$$

c is _____.

6.

$$522 - 148 = g$$

$$\begin{array}{r} 522 \\ -148 \\ \hline \end{array}$$

g is _____.

9.

$$n = 1256 - 478$$

$$\begin{array}{r} 1256 \\ - 478 \\ \hline \end{array}$$

n is _____.

10.

Hawa and Tamu live in Liberia. Hawa earned 425 dollars. Tamu earned 1248 dollars. Tamu earned _____ dollars more than Hawa.

Make the sentences true.
Use the signs $>$, $<$ and $=$.

1. $400 - 100$ ___ ___ 300	6. $564 - 60$ ___ ___ 500
2. $400 - 99$ ___ ___ 300	7. $748 - 248$ ___ ___ 300
3. $400 - 121$ ___ ___ 300	8. $400 - 121$ ___ ___ 200
4. $526 - 300$ ___ ___ 200	9. $12 - 10$ ___ ___ $62 - 60$
5. $1457 - 387$ ___ ___ 1000	10. $40 - 9$ ___ ___ $40 - 10$

11.
 $400 - 299$ ___ ___ $(400 - 300) + 1$

12.
 $400 - 301$ ___ ___ $(400 - 300) - 1$

13.

Mary is 10 years old. Her mother is 32 years old.
Mary said, "My mother is 22 years older than I am
because $32 - 10$ _____ 22 ."

2		4
	5	
6		8

15

Sum: 15

	7	
1	5	9

15

Sum: 15

6		2
	5	
8		

15

Sum: 15

		4
6	7	2

15

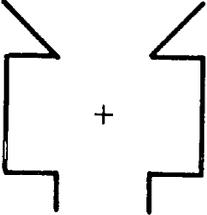
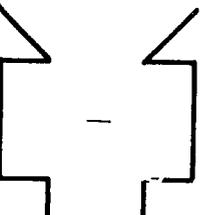
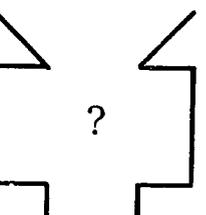
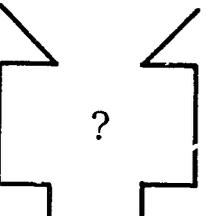
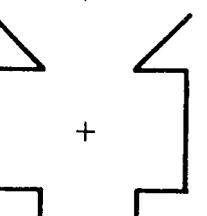
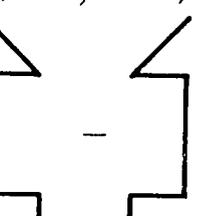
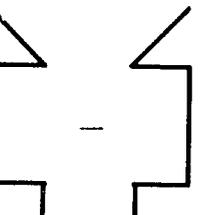
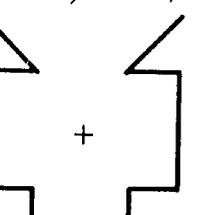
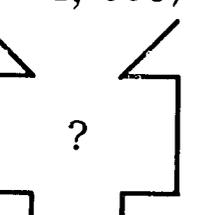
Sum: 15

	9	
3	7	11

Sum: 21

	8	
6		2
	0	

Sum: 12

Operation Machines		
<p>1.</p> <p>(638, 393)</p>  <p>_____</p>	<p>4.</p> <p>(802, 475)</p>  <p>_____</p>	<p>7.</p> <p>(160, 395)</p>  <p>555</p>
<p>2.</p> <p>(834, 476)</p>  <p>1310</p>	<p>5.</p> <p>(859, 584)</p>  <p>_____</p>	<p>8.</p> <p>(653, 293)</p>  <p>_____</p>
<p>3.</p> <p>(720, 376)</p>  <p>_____</p>	<p>6.</p> <p>(746, 679)</p>  <p>_____</p>	<p>9.</p> <p>(514, 395)</p>  <p>119</p>

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VOLUME 2

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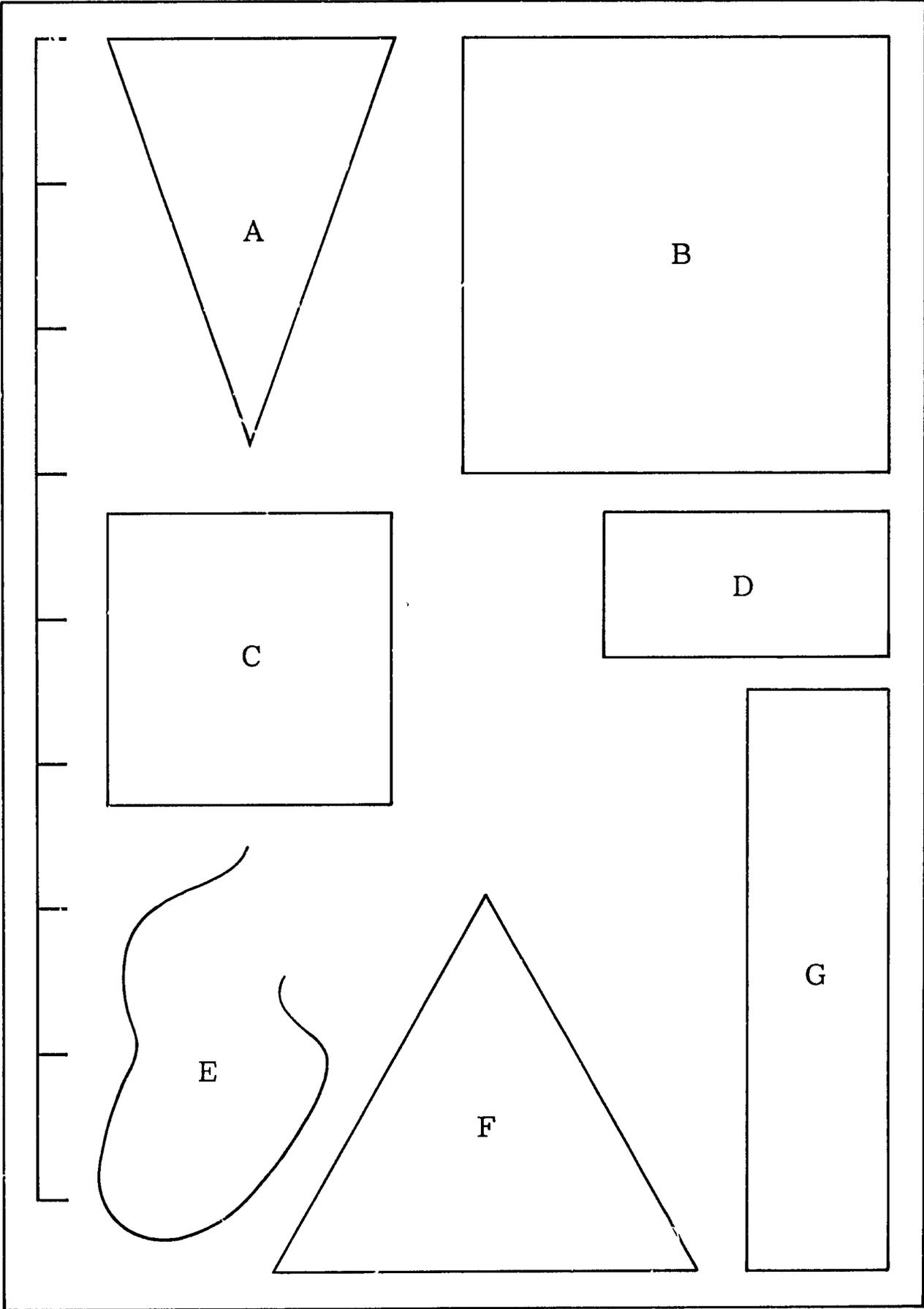
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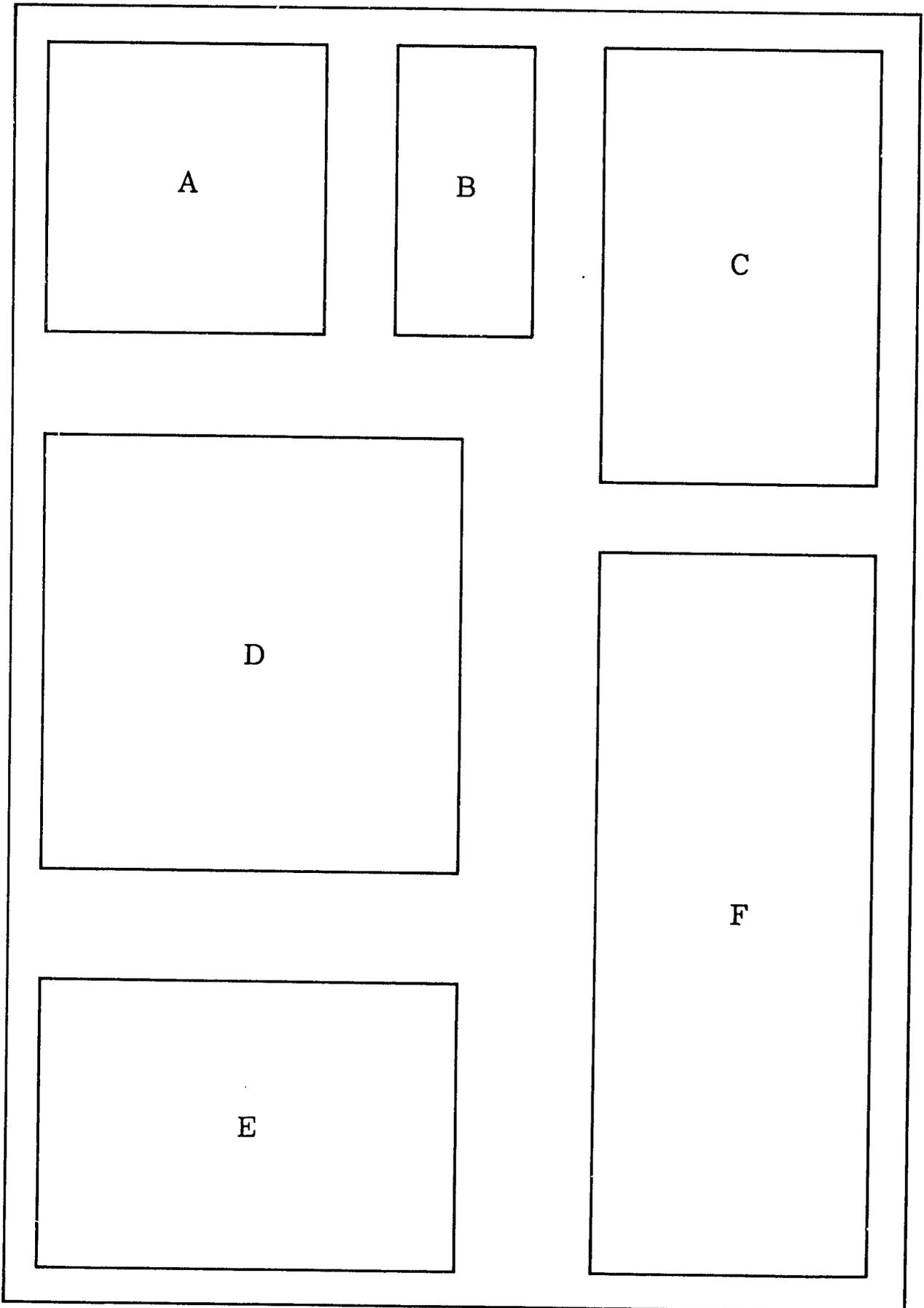
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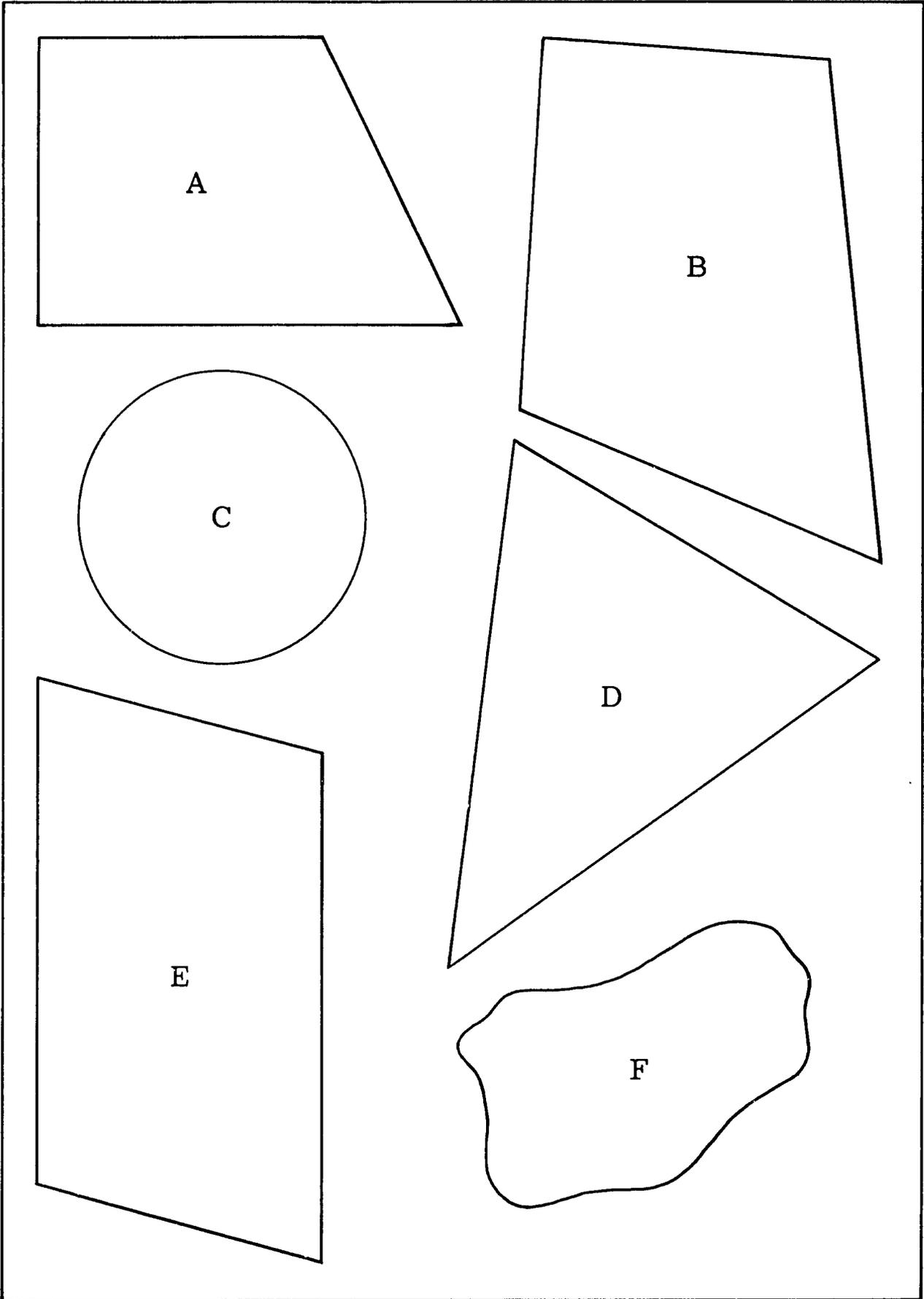
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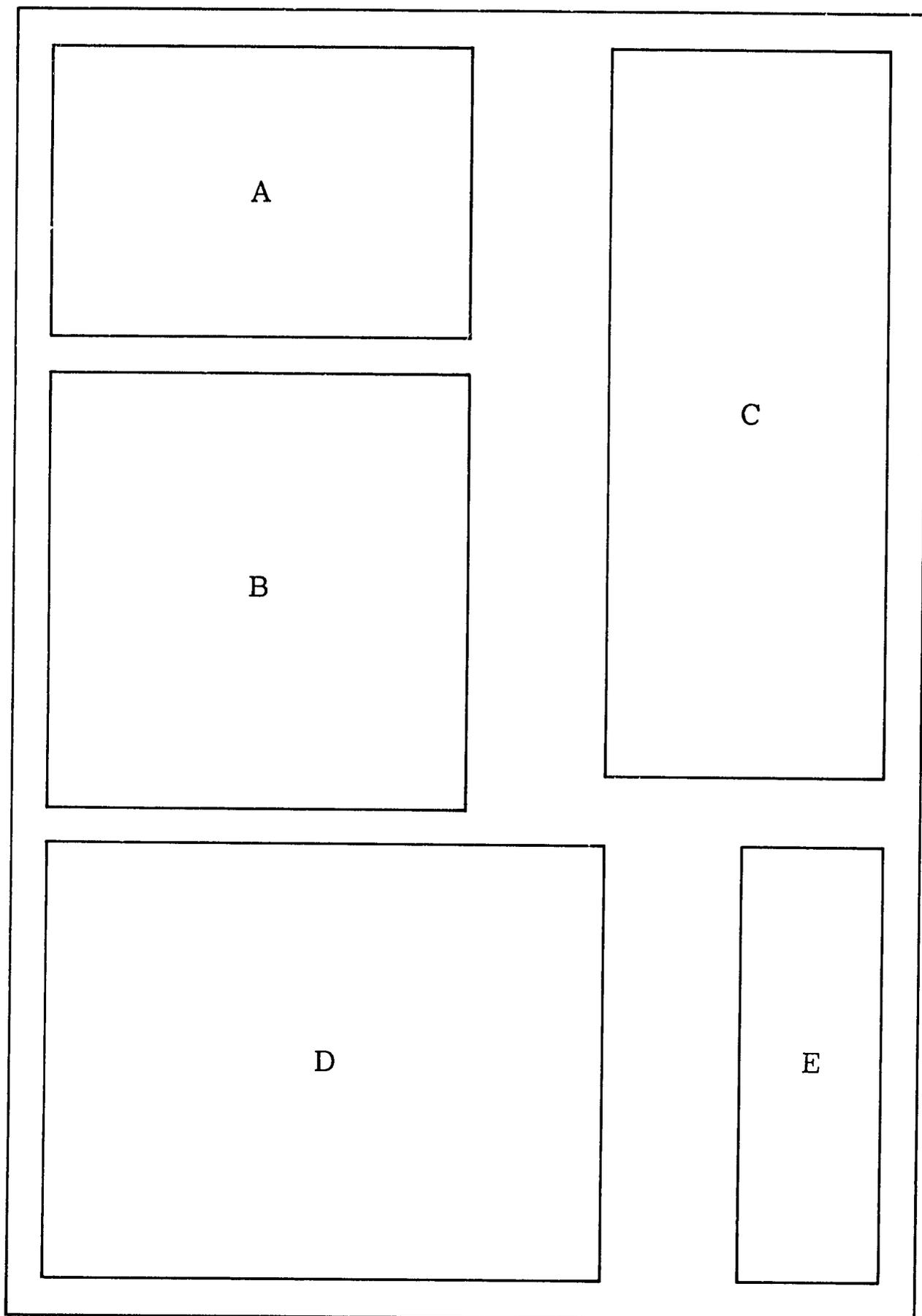
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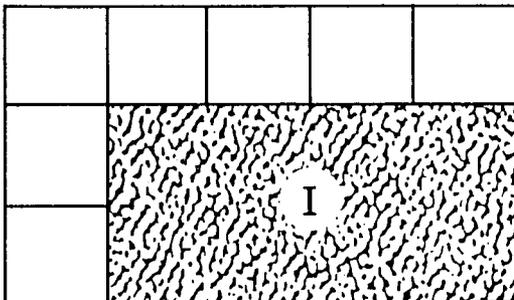
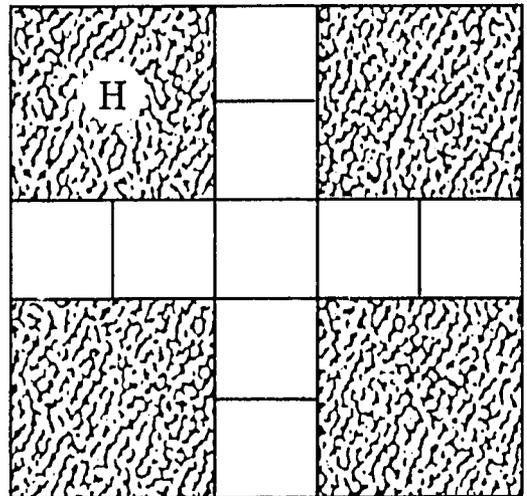
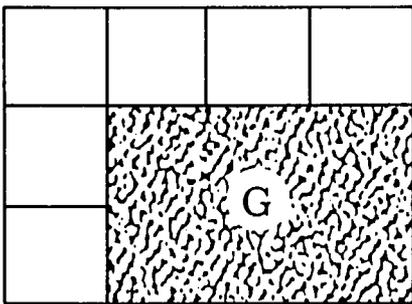
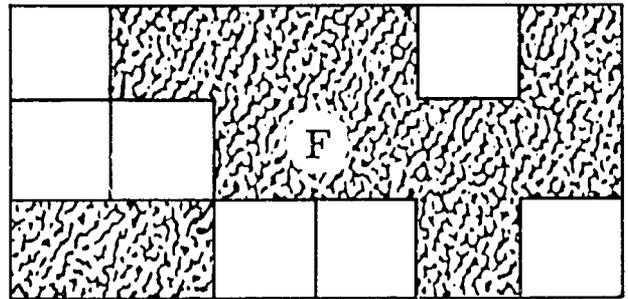
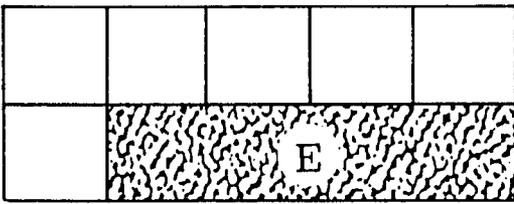
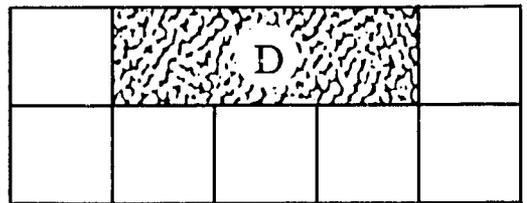
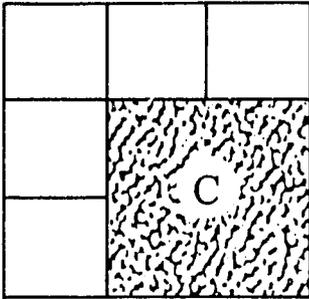
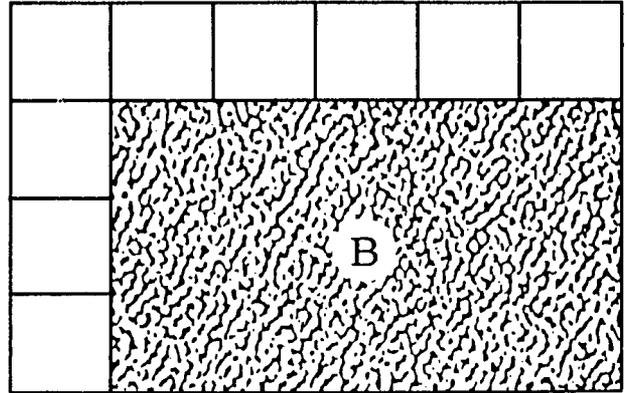
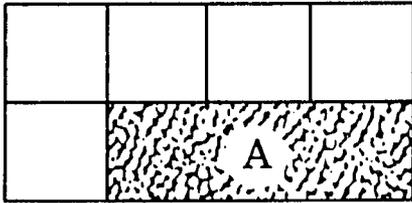
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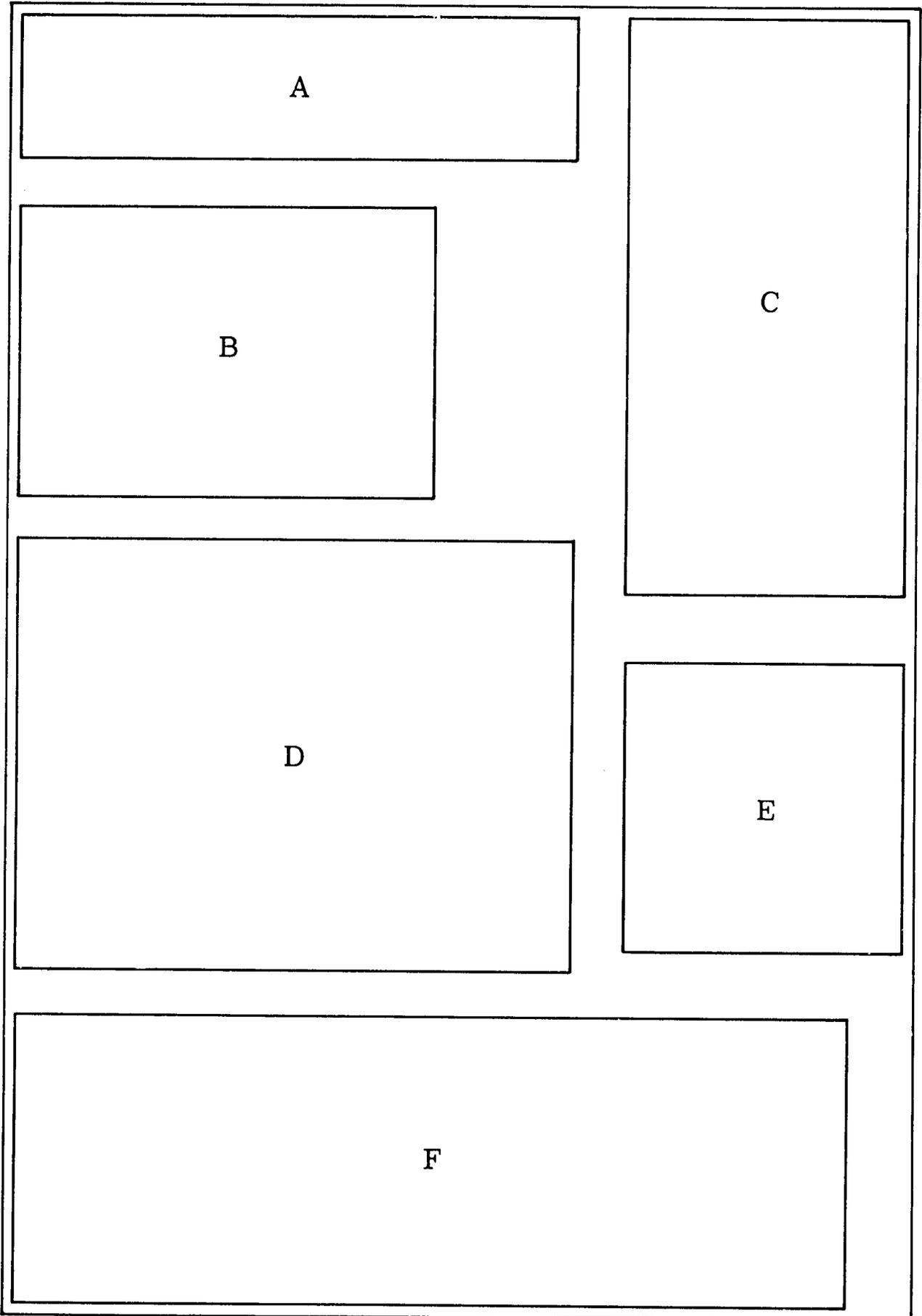


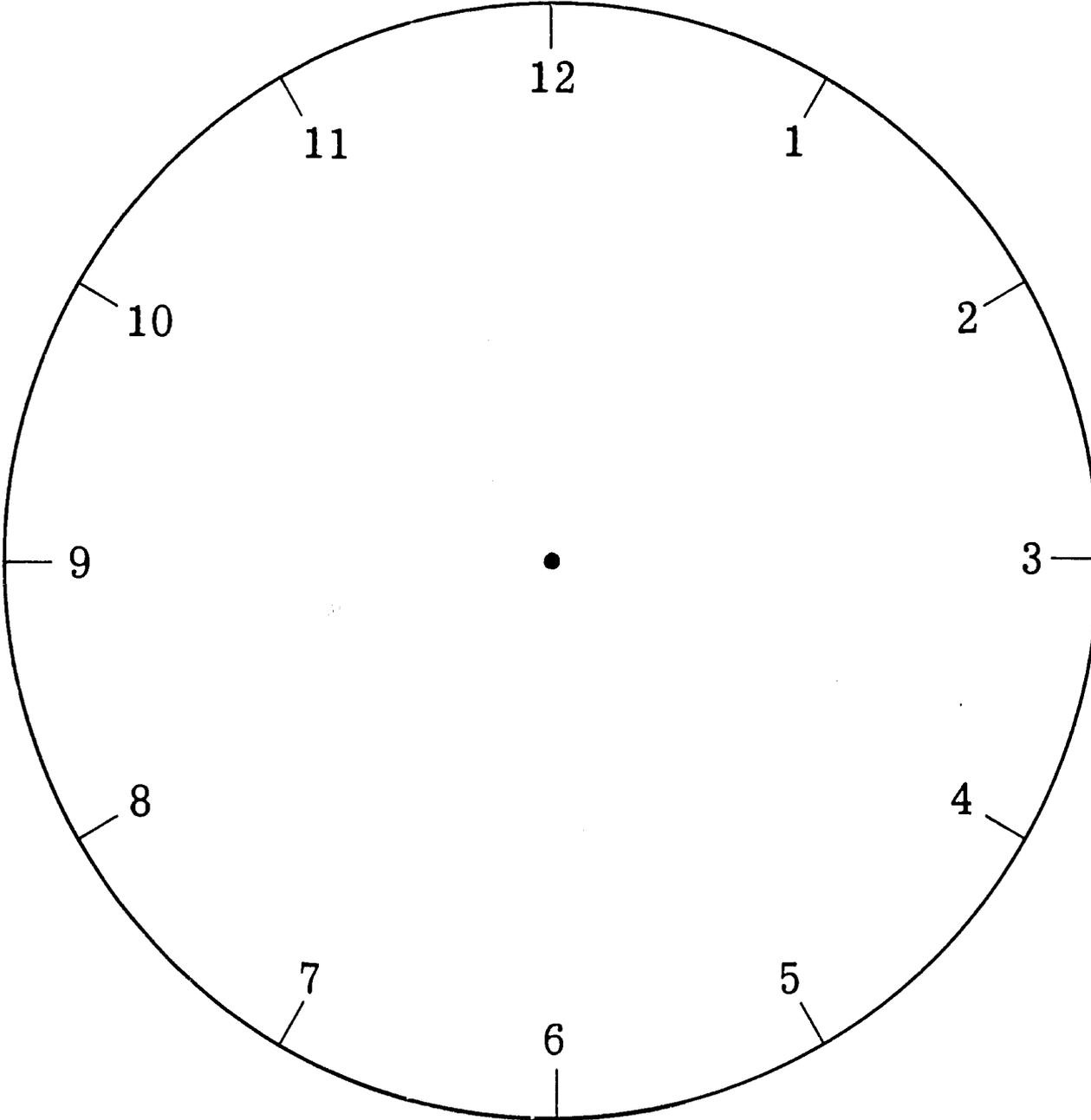












Show an array for each of these products:

1. 3×7

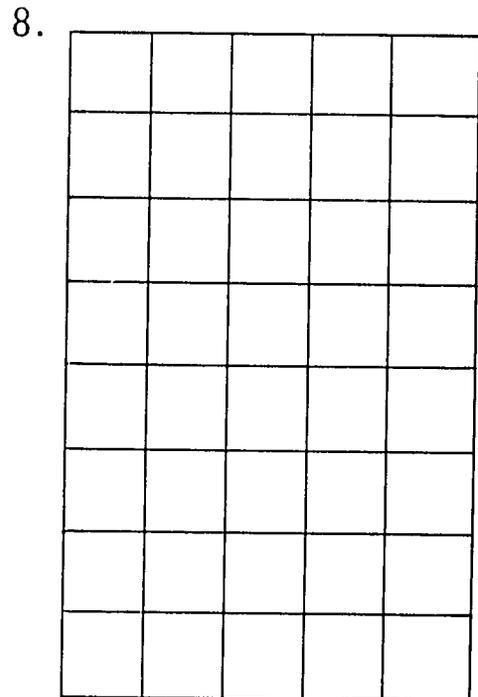
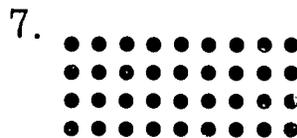
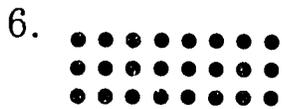
2. 4×6

3. 5×7

4. 6×8

5. Draw an array of 32 dots with 4 rows.

Write a multiplication sentence for each of these arrays:



These number pairs tell about arrays. Write a multiplication sentence for each array.

9. (6, 3); $6 \times 3 = 18$

13. (4, 5); _____

10. (4, 7); _____

14. (3, 6); _____

11. (5, 8); _____

15. (4, 6); _____

12. (9, 4); _____

16. (5, 6); _____

Make the sentences true by finding the missing factors.

1. $n \times 3 = 18$, n is 6.
2. $m \times 8 = 24$, m is _____.
3. $7 \times t = 35$, t is _____.
4. $a \times 4 = 16$, a is _____.
5. $c \times 6 = 36$, c is _____.
6. $9 \times m = 36$, m is _____.
7. $t \times 9 = 27$, t is _____.
8. $3 \times b = 30$, b is _____.
9. $8 \times b = 32$, b is _____.
10. $d \times 4 = 32$, d is _____.
11. $7 \times t = 21$, t is _____.
12. $6 \times m = 18$, m is _____.
13. $n \times 4 = 36$, n is _____.

Find the products.

- | | | | |
|--------------------|----------------------|----------------------|----------------------|
| 1. $7 \times 7 =$ | <input type="text"/> | 14. $8 \times 6 =$ | <input type="text"/> |
| 2. $9 \times 6 =$ | <input type="text"/> | 15. $8 \times 5 =$ | <input type="text"/> |
| 3. $4 \times 6 =$ | <input type="text"/> | 16. $9 \times 7 =$ | <input type="text"/> |
| 4. $9 \times 10 =$ | <input type="text"/> | 17. $10 \times 10 =$ | <input type="text"/> |
| 5. $8 \times 9 =$ | <input type="text"/> | 18. $10 \times 8 =$ | <input type="text"/> |
| 6. $18 \times 1 =$ | <input type="text"/> | 19. $9 \times 1 =$ | <input type="text"/> |
| 7. $10 \times 4 =$ | <input type="text"/> | 20. $8 \times 4 =$ | <input type="text"/> |
| 8. $6 \times 7 =$ | <input type="text"/> | 21. $10 \times 6 =$ | <input type="text"/> |
| 9. $9 \times 9 =$ | <input type="text"/> | 22. $7 \times 9 =$ | <input type="text"/> |
| 10. $5 \times 9 =$ | <input type="text"/> | 23. $6 \times 5 =$ | <input type="text"/> |
| 11. $3 \times 9 =$ | <input type="text"/> | 24. $8 \times 7 =$ | <input type="text"/> |
| 12. $7 \times 8 =$ | <input type="text"/> | 25. $9 \times 8 =$ | <input type="text"/> |
| 13. $8 \times 8 =$ | <input type="text"/> | 26. $6 \times 9 =$ | <input type="text"/> |

Make the sentences true.

1. 24 is a multiple of 3 because $\underline{24} \div \underline{3}$ is $\underline{8}$.
2. 36 is a multiple of 9 because $\underline{9} \times \underline{4}$ is $\underline{36}$.
3. 24 is a multiple of 4 because $\underline{\quad} \div \underline{\quad}$ is $\underline{\quad}$.
4. 30 is a multiple of $\underline{\quad}$ because 15×2 is $\underline{\quad}$.
5. $\underline{\quad}$ is a multiple of 7 because 3×7 is $\underline{\quad}$.
6. 45 is a multiple of $\underline{\quad}$ because $\underline{\quad} \times 5$ is 45.
7. $\underline{\quad}$ is a multiple of 6 because 8×6 is $\underline{\quad}$.
8. 60 is a multiple of 10 because $\underline{\quad} \times \underline{\quad}$ is $\underline{\quad}$.
9. 75 is a multiple of 25 because $\underline{\quad} \div \underline{\quad}$ is $\underline{\quad}$.
10. $\underline{\quad}$ is a multiple of $\underline{\quad}$ because 5×4 is 20.
11. 80 is a multiple of $\underline{\quad}$ because $80 \div \underline{\quad}$ is 20.
12. $\underline{\quad}$ is a multiple of $\underline{\quad}$ because 3×4 is 12.
13. $\underline{\quad}$ is a multiple of $\underline{\quad}$ because $16 \div 4$ is 4.

Write the multiplication sentences,
and find the missing factors.

1. $36 \div 4 = n$ $4 \times n = 36$ n is 9.
2. $72 \div 6 = y$ _____ y is _____.
3. $64 \div 8 = m$ _____ m is _____.
4. $63 \div 9 = t$ _____ t is _____.
5. $81 \div 9 = x$ _____ x is _____.
6. $56 \div 7 = n$ _____ n is _____.
7. $42 \div 6 = m$ _____ m is _____.
8. $32 \div 4 = y$ _____ y is _____.
9. $60 \div 6 = s$ _____ s is _____.
10. $48 \div 8 = m$ _____ m is _____.
11. $70 \div 10 = t$ _____ t is _____.
12. $45 \div 5 = m$ _____ m is _____.
13. $72 \div 9 = t$ _____ t is _____.

Make the multiplication sentences true.

1. $90 \div n = 10$, n is _____.
2. $40 \times c = 80$, c is _____.
3. $10 \times m = 100$, m is _____.
4. $t \times 90 = 270$, t is _____.
5. $n \times 20 = 140$, n is _____.
6. $80 \div b = 20$, b is _____.
7. $30 \times 6 = y$, y is _____.
8. $7 \times 40 = m$, m is _____.
9. $9 \times 30 = a$, a is _____.
10. $90 \div y = 30$, y is _____.
11. $360 \div d = 60$, d is _____.
12. $70 \div m = 7$, m is _____.
13. $360 \div 40 = y$, y is _____.

Find the products.

1. $2 \times 34 =$

14. $50 \times 3 =$

2. $4 \times 21 =$

15. $24 \times 2 =$

3. $3 \times 13 =$

16. $4 \times 62 =$

4. $12 \times 4 =$

17. $4 \times 52 =$

5. $23 \times 3 =$

18. $72 \times 2 =$

6. $31 \times 7 =$

19. $63 \times 3 =$

7. $22 \times 4 =$

20. $61 \times 3 =$

8. $14 \times 2 =$

21. $52 \times 4 =$

9. $30 \times 6 =$

22. $0 \times 54 =$

10. $15 \times 1 =$

23. $41 \times 6 =$

11. $20 \times 8 =$

24. $32 \times 4 =$

12. $7 \times 21 =$

25. $5 \times 10 =$

13. $6 \times 31 =$

26. $81 \times 2 =$

Find the products.

1. $32 \times 6 =$

14. $30 \times 8 =$

2. $45 \times 7 =$

15. $34 \times 9 =$

3. $14 \times 8 =$

16. $71 \times 9 =$

4. $73 \times 4 =$

17. $39 \times 7 =$

5. $81 \times 9 =$

18. $7 \times 62 =$

6. $4 \times 92 =$

19. $8 \times 82 =$

7. $26 \times 3 =$

20. $45 \times 2 =$

8. $60 \times 5 =$

21. $8 \times 56 =$

9. $15 \times 5 =$

22. $48 \times 5 =$

10. $3 \times 84 =$

23. $6 \times 65 =$

11. $4 \times 95 =$

24. $23 \times 5 =$

12. $78 \times 6 =$

25. $94 \times 6 =$

13. $50 \times 3 =$

26. $92 \times 9 =$

Find the products.

$$\begin{array}{r} 1. \\ 35 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \\ 42 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \\ 38 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 19. \\ 56 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \\ 82 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \\ 63 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \\ 75 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 20. \\ 94 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \\ 45 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \\ 80 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \\ 38 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 21. \\ 74 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \\ 48 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \\ 61 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \\ 95 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 22. \\ 56 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \\ 72 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \\ 67 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 17. \\ 45 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 23. \\ 81 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \\ 43 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \\ 68 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \\ 70 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 24. \\ 59 \\ \times 3 \\ \hline \end{array}$$

Story Problems

1. John's father is a mason. Yesterday he laid 6 rows of bricks with 34 bricks in each row. How many bricks did he lay?

2. A market woman has 6 baskets of oranges. In each basket there are 35 oranges. How many oranges are in all the baskets?

3. There are 235 boys and 97 girls in Ukeje School. How many children are in Ukeje School?

4. A box of chalk has 9 rows of chalk with 32 pieces of chalk in each row. How many pieces of chalk are in the box?

Story Problems

5. A company has 8 buses. Each bus can carry 45 people. On a trip, all the buses were filled. How many people did all the buses carry?
-

6. Mother buys 7 dozen eggs a month. How many dozen eggs does she buy in a year?
-

7. Each of the 35 pupils in Obi's class brought 7 counters to school. How many counters did the class bring?
-

8. A lorry goes 35 miles in one hour. If it goes on a journey for 8 hours without stopping, how many miles will it go?
-

Story Problems

9. The pupils of Zambia School went to a show in 7 buses. Forty-two children rode in each bus. How many children rode in all the buses?

10. Three-hundred seventy-five people were invited to a party. Ninety of them did not come. How many came?

11. In a school assembly hall there are 9 rows of chairs, with 42 chairs in each row. There are also five chairs on the platform. How many chairs are there in the hall?

12. A bus has seats arranged in two sections. Each section has 16 rows of seats, with 5 seats in each row. How many people can the bus seat?

Find the products.

- | | |
|---|---|
| 1. $2 \times 143 =$ <input type="text"/> | 14. $4 \times 200 =$ <input type="text"/> |
| 2. $3 \times 102 =$ <input type="text"/> | 15. $2 \times 156 =$ <input type="text"/> |
| 3. $3 \times 230 =$ <input type="text"/> | 16. $95 \times 8 =$ <input type="text"/> |
| 4. $2 \times 223 =$ <input type="text"/> | 17. $5 \times 64 =$ <input type="text"/> |
| 5. $5 \times 105 =$ <input type="text"/> | 18. $458 \times 7 =$ <input type="text"/> |
| 6. $6 \times 501 =$ <input type="text"/> | 19. $5 \times 80 =$ <input type="text"/> |
| 7. $7 \times 102 =$ <input type="text"/> | 20. $5 \times 75 =$ <input type="text"/> |
| 8. $5 \times 312 =$ <input type="text"/> | 21. $6 \times 842 =$ <input type="text"/> |
| 9. $4 \times 315 =$ <input type="text"/> | 22. $73 \times 9 =$ <input type="text"/> |
| 10. $3 \times 156 =$ <input type="text"/> | 23. $6 \times 136 =$ <input type="text"/> |
| 11. $78 \times 3 =$ <input type="text"/> | 24. $9 \times 95 =$ <input type="text"/> |
| 12. $7 \times 306 =$ <input type="text"/> | 25. $4 \times 98 =$ <input type="text"/> |
| 13. $8 \times 60 =$ <input type="text"/> | 26. $209 \times 5 =$ <input type="text"/> |

Find the products.

$$\begin{array}{r} 1. \\ 365 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \\ 125 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \\ 210 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 19. \\ 315 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \\ 126 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \\ 873 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \\ 742 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 20. \\ 418 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \\ 540 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \\ 709 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \\ 29 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 21. \\ 452 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \\ 918 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \\ 386 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 16. \\ 905 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 22. \\ 540 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \\ 246 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \\ 719 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 17. \\ 602 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 23. \\ 389 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \\ 710 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \\ 920 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \\ 406 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 24. \\ 217 \\ \times 4 \\ \hline \end{array}$$

Rename in expanded form.

1. 65 is ____ tens and ____ ones.
 2. 34 is ____ tens and ____ ones.
 3. 60 is ____ tens and ____ ones.
 4. 782 is ____ hundreds ____ tens and ____ one.
 5. 604 is ____ hundreds ____ tens and ____ one.
 6. 81 is ____ hundreds ____ tens and ____ one.
 7. 311 is ____ hundreds ____ ten and ____ one.
-

Rename as the sum of two addends. Make each addend a multiple of 3.

8. $87 = \underline{\quad} + \underline{\quad}$
 9. $108 = \underline{\quad} + \underline{\quad}$
 10. $135 = \underline{\quad} + \underline{\quad}$
 11. $78 = \underline{\quad} + \underline{\quad}$
 12. $54 = \underline{\quad} + \underline{\quad}$
 13. $81 = \underline{\quad} + \underline{\quad}$
-

Rename as the sum of three addends. Make each addend a multiple of 4.

14. $356 = \underline{\quad} + \underline{\quad} + \underline{\quad}$
 15. $96 = \underline{\quad} + \underline{\quad} + \underline{\quad}$
 16. $108 = \underline{\quad} + \underline{\quad} + \underline{\quad}$
-

Find the missing factors.

1. $48 \div 8 = n$

7. $96 \div 8 = t$

2. $36 \div 6 = t$

8. $34 \div 2 = b$

3. $42 \div 3 = m$

9. $45 \div 3 = n$

4. $60 \div 4 = s$

10. $32 \div 2 = s$

5. $96 \div 3 = g$

11. $72 \div 3 = t$

6. $52 \div 4 = y$

12. $76 \div 2 = m$

Story Problems

13. A market woman has 96 eggs. The eggs are in boxes. Each box contains 6 eggs. How many boxes of eggs has she?

14. A lorry travelled 84 miles and used 4 gallons of petrol. How far did it travel on one gallon of petrol?

15. A farmer planted 87 trees in 3 rows. There are the same number of trees in each row. How many trees are in each row?

Find the missing factors.

1. $78 \div 3 = a$

2. $52 \div 2 = y$

3. $96 \div 4 = m$

4. $87 \div 3 = r$

5. $75 \div 5 = t$

6. $90 \div 5 = m$

7. $42 \div 3 = s$

8. $84 \div 3 = m$

9. $84 \div 4 = t$

10. $65 \div 5 = m$

11. $72 \div 6 = r$

12. $96 \div 6 = t$

Story Problems

13. A bus has 75 seats. There are 5 seats in each row. How many rows of seats are in the bus?

14. A bag of chicken feed weighs 56 pounds. How much will 4 bags weigh?

15. Seven pupils collected 84 sticks for a class. If each pupil collected the same number of sticks, how many sticks did each pupil collect?

Divide.

1. $315 \div 3 = \square$

6. $208 \div 4 = \square$

2. $357 \div 7 = \square$

7. $245 \div 5 = \square$

3. $116 \div 4 = \square$

8. $376 \div 8 = \square$

4. $348 \div 6 = \square$

9. $216 \div 4 = \square$

5. $141 \div 3 = \square$

10. $672 \div 6 = \square$

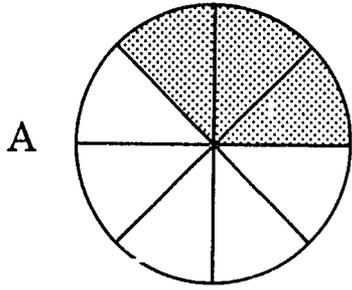
Story Problems

11. A farmer planted 435 yams in hills. He planted 5 hills. He planted the same number of yams in each hill. How many yams were in each hill?

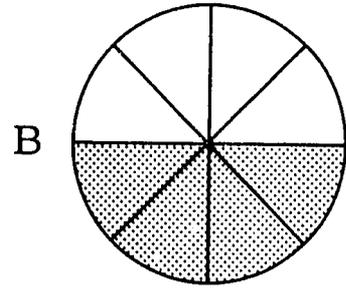
12. The 356 pupils of a school are separated into 4 houses. Each house has the same number of pupils. How many pupils are in each house?

13. Each child in a class of 35 children collected 12 counters. How many counters did the class collect?

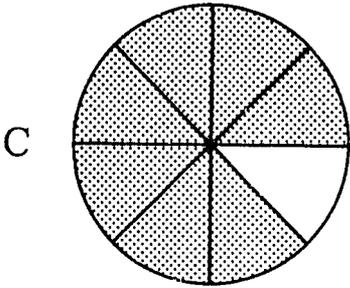
14. Eight men collected 336 shillings for taxes. Each man collected the same number of shillings. How many shillings did each man collect?



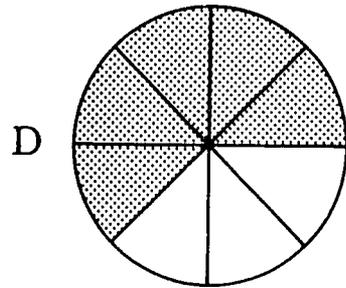
The shaded region of A shows _____.



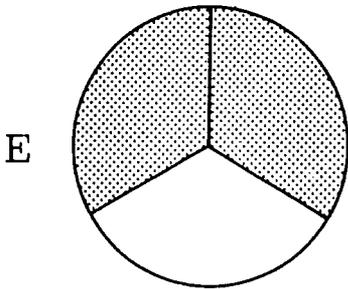
The shaded region of B shows _____.



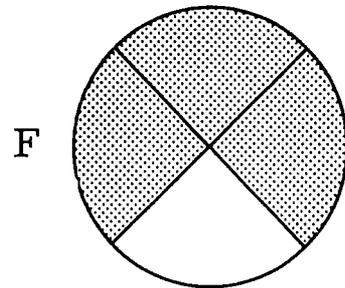
The shaded region of C shows _____.



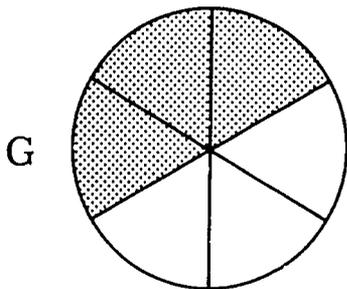
The shaded region of D shows _____.



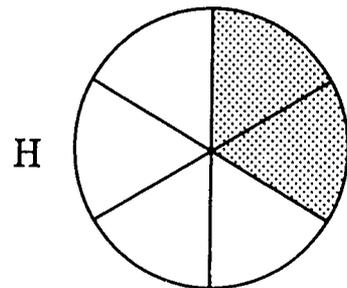
The shaded region of E shows _____.



The shaded region of F shows _____.

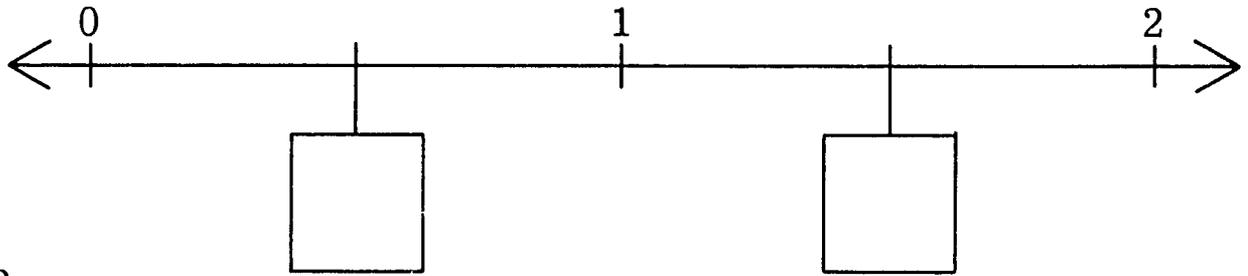


The shaded region of G shows _____.

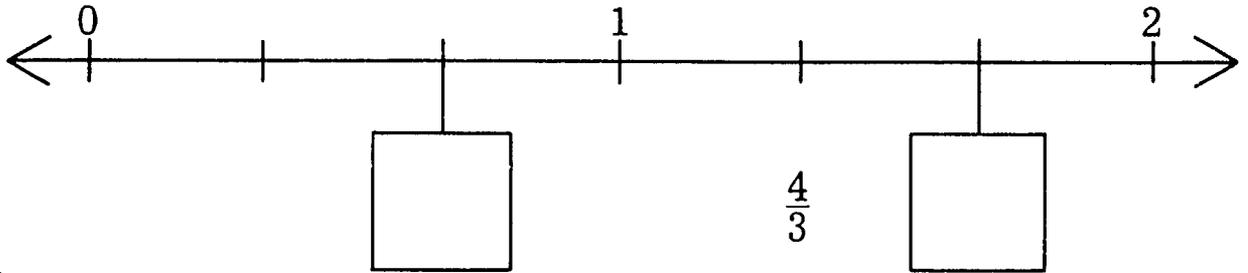


The shaded region of H shows _____.

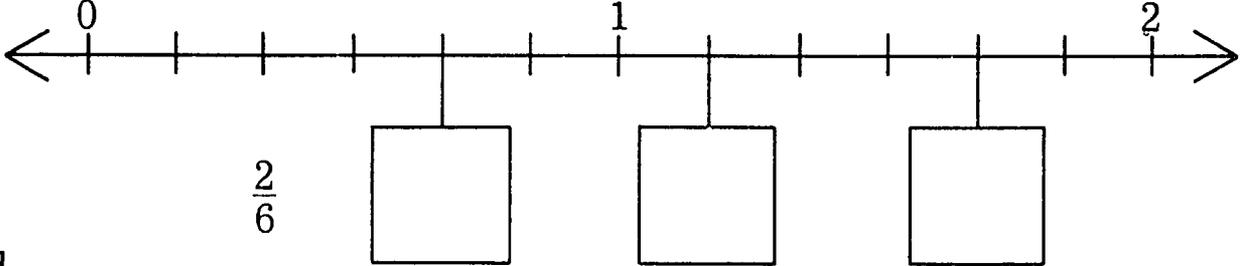
a.



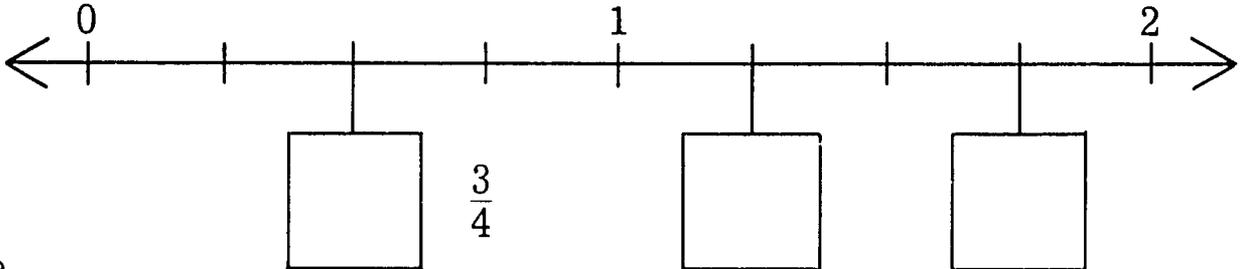
b.



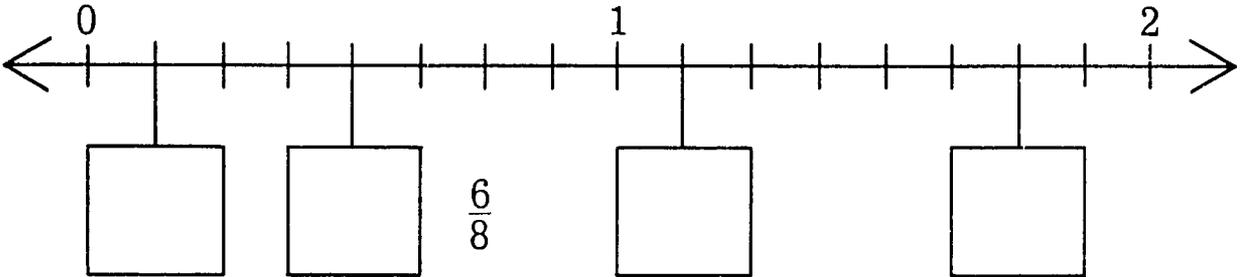
c.



d.



e.



What is another name for each of these numbers?

1. $\frac{1}{3} =$ _____	6. $\frac{3}{4} =$ _____	11. $\frac{2}{4} =$ _____
2. $\frac{1}{4} =$ _____	7. $\frac{3}{6} =$ _____	12. $\frac{8}{4} =$ _____
3. $\frac{1}{2} =$ _____	8. $\frac{2}{3} =$ _____	13. $\frac{3}{2} =$ _____
4. $\frac{4}{2} =$ _____	9. $\frac{5}{5} =$ _____	14. $\frac{4}{6} =$ _____
5. $\frac{6}{8} =$ _____	10. $\frac{2}{8} =$ _____	15. $\frac{6}{4} =$ _____

Make a true sentence by writing one of these symbols: =, > or <.

16. $\frac{3}{4}$ _____ $\frac{1}{8}$	22. $\frac{8}{6}$ _____ $\frac{4}{3}$
17. $\frac{10}{6}$ _____ $\frac{5}{3}$	23. $\frac{8}{4}$ _____ $\frac{4}{3}$
18. $\frac{5}{6}$ _____ $\frac{7}{8}$	24. $\frac{1}{3}$ _____ $\frac{3}{8}$
19. $\frac{2}{3}$ _____ $\frac{4}{8}$	25. $\frac{6}{8}$ _____ $\frac{3}{4}$
20. $\frac{5}{4}$ _____ $\frac{10}{8}$	26. $\frac{7}{5}$ _____ $\frac{4}{5}$
21. $\frac{1}{2}$ _____ $\frac{4}{8}$	27. $\frac{4}{3}$ _____ $\frac{3}{4}$

$$1. \quad \frac{3}{4} = \frac{3 \times 2}{4 \times 2} = \underline{\frac{6}{8}}$$

$$2. \quad \frac{1}{2} = \frac{1 \times 4}{2 \times 4} = \underline{\hspace{2cm}}$$

$$3. \quad \frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \underline{\hspace{2cm}}$$

$$4. \quad \frac{1}{2} = \frac{1 \times 5}{2 \times 5} = \underline{\hspace{2cm}}$$

$$5. \quad \frac{5}{6} = \frac{5 \times 2}{6 \times 2} = \underline{\hspace{2cm}}$$

$$6. \quad \frac{4}{6} = \frac{4 \times 2}{6 \times 2} = \underline{\hspace{2cm}}$$

$$7. \quad \frac{2}{3} = \frac{2 \times 3}{3 \times 3} = \underline{\hspace{2cm}}$$

$$8. \quad \frac{3}{4} = \frac{3 \times 3}{4 \times 3} = \underline{\hspace{2cm}}$$

Write a true sentence showing addition.

- | | |
|---|----------------------|
| 1. $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ | 11. $\frac{4}{5} =$ |
| 2. $\underline{\quad} + \underline{\quad} + \underline{\quad} = \frac{3}{4}$ | 12. $\frac{6}{8} =$ |
| 3. $\underline{\quad} + \underline{\quad} = \frac{2}{6}$ | 13. $\frac{3}{12} =$ |
| 4. $\underline{\quad} + \underline{\quad} = \frac{2}{8}$ | 14. $\frac{4}{6} =$ |
| 5. $\underline{\quad} + \underline{\quad} + \underline{\quad} = \frac{3}{3}$ | 15. $\frac{2}{4} =$ |
| 6. $\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \frac{4}{8}$ | 16. $\frac{5}{6} =$ |
| 7. $\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \frac{4}{10}$ | 17. $\frac{7}{10} =$ |
| 8. $\underline{\quad} + \underline{\quad} + \underline{\quad} = \frac{3}{5}$ | 18. $\frac{9}{12} =$ |
| 9. $\underline{\quad} + \underline{\quad} = \frac{2}{5}$ | 19. $\frac{6}{10} =$ |
| 10. $\underline{\quad} + \underline{\quad} + \underline{\quad} + \underline{\quad} = \frac{4}{4}$ | 20. $\frac{3}{6} =$ |

1. $5 \times \frac{1}{12} = \frac{5}{12}$

2. $3 \times \frac{1}{4} = \square$

3. $9 \times \frac{1}{10} = \square$

4. $2 \times \frac{1}{4} = \square$

5. $6 \times \frac{1}{8} = \square$

6. $5 \times \frac{1}{6} = \square$

7. $4 \times \frac{1}{5} = \square$

8. $8 \times \frac{1}{10} = \square$

9. $3 \times \frac{1}{6} = \square$

10. $6 \times \frac{1}{10} = \square$

11. $7 \times \frac{1}{12} = \square$

12. $8 \times \frac{1}{8} = \square$

13. $5 \times \frac{1}{10} = \square$

14. $7 \times \frac{1}{8} = \square$

15. $4 \times \frac{1}{6} = \square$

16. $4 \times \frac{1}{4} = \square$

17. $3 \times \frac{1}{5} = \square$

18. $2 \times \frac{1}{3} = \square$

19. $4 \times \frac{1}{10} = \square$

20. $9 \times \frac{1}{12} = \square$

21. $3 \times \frac{1}{8} = \square$

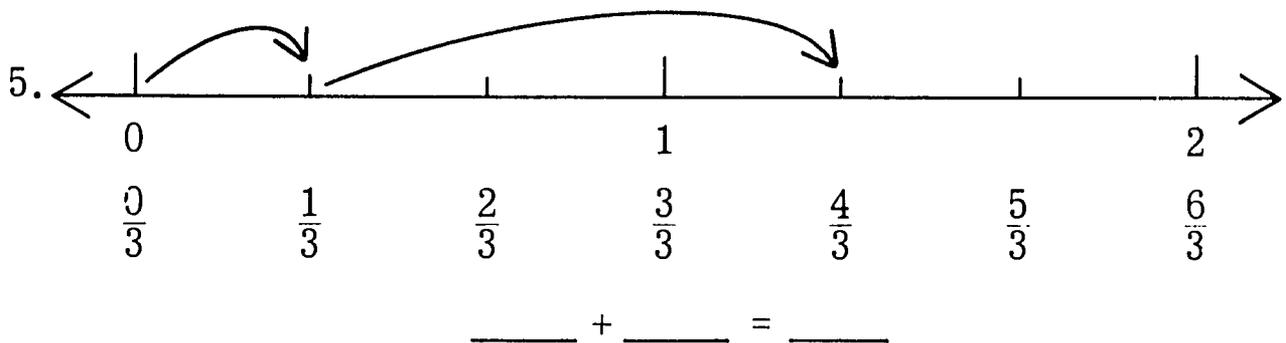
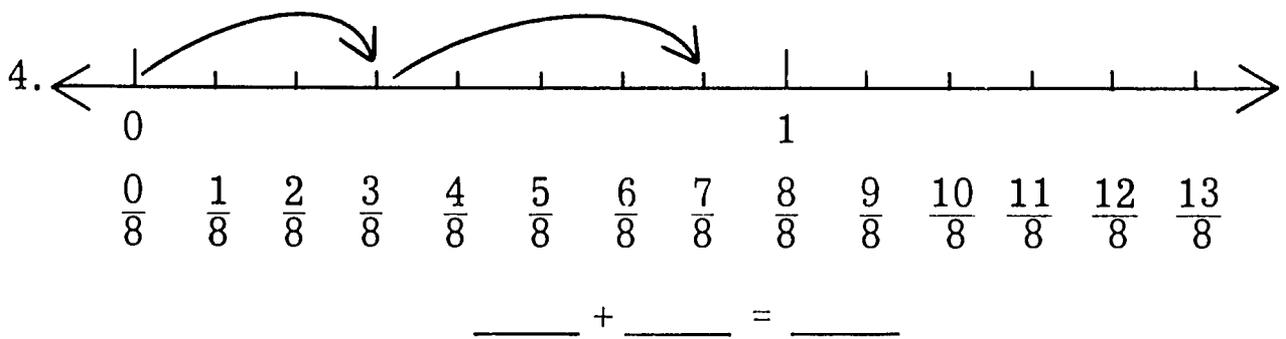
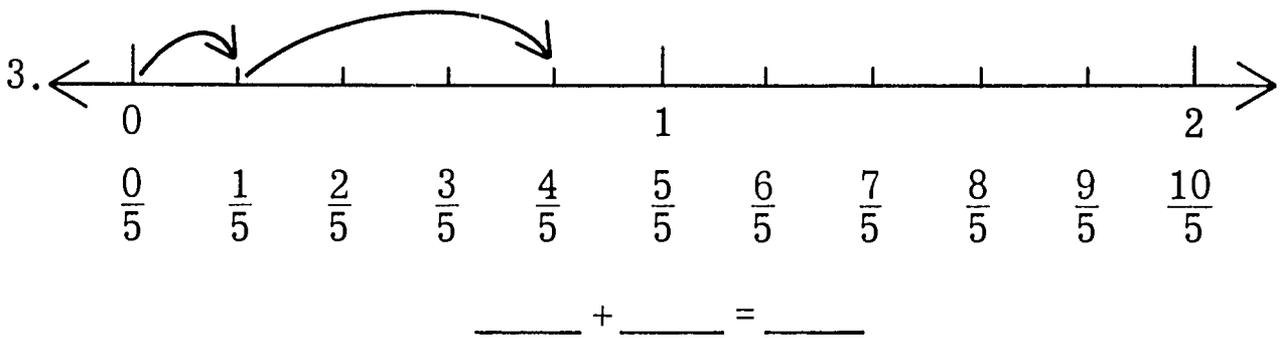
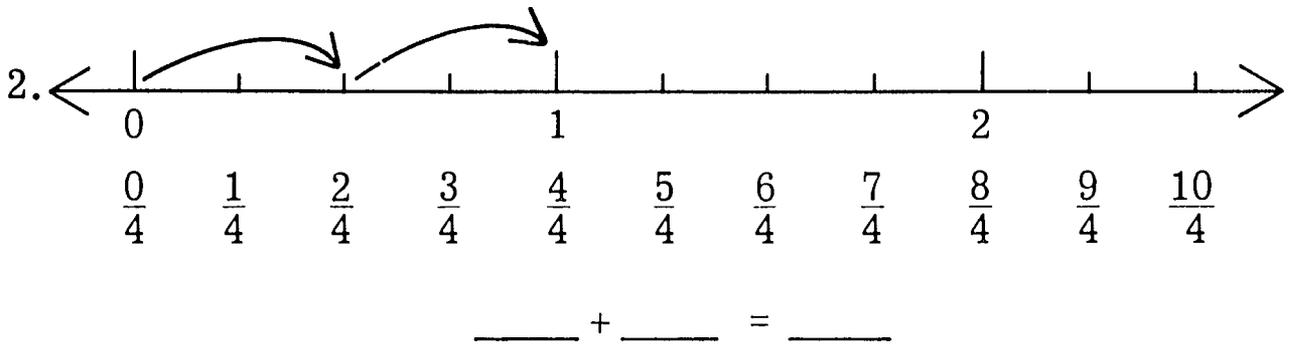
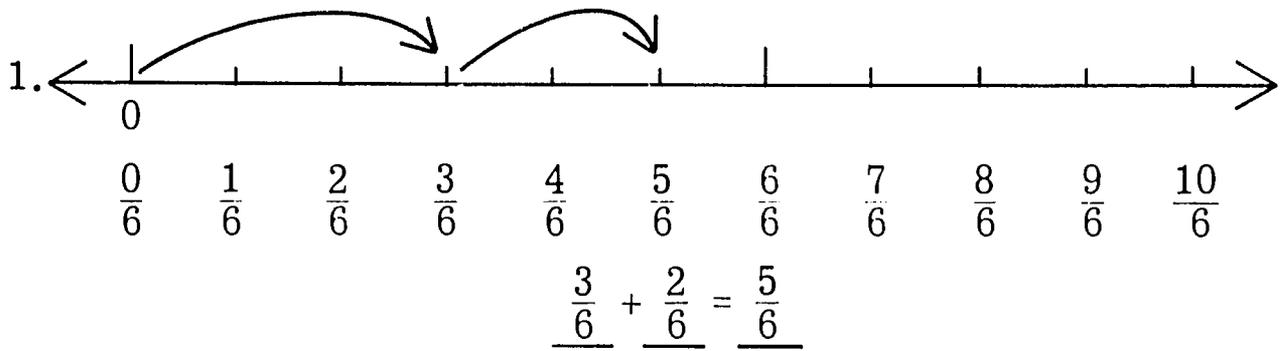
22. $4 \times \frac{1}{12} = \square$

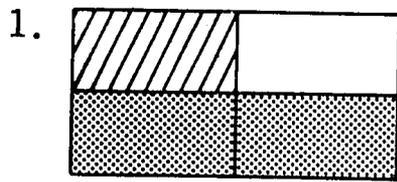
23. $3 \times \frac{1}{10} = \square$

24. $10 \times \frac{1}{10} = \square$

Complete.

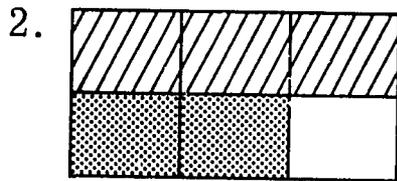
1. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4} = 3 \times \frac{1}{4}$
2. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} = ? = ? \times ?$
3. $\frac{1}{3} + \frac{1}{3} = ? = ? \times ?$
4. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = ? = ? \times ?$
5. $?$ $= \frac{3}{8} = ? \times ?$
6. $?$ $= \frac{4}{6} = ? \times ?$
7. $?$ $= \frac{5}{12} = ? \times ?$
8. $?$ $= ? = 6 \times \frac{1}{10}$
9. $?$ $= ? = 5 \times \frac{1}{6}$
10. $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} = ? = ? \times ?$
11. $\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} = ? = ? \times ?$
12. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} = ? = ? \times ?$
13. $\frac{1}{4} + \frac{1}{4} = ? = ? \times ?$





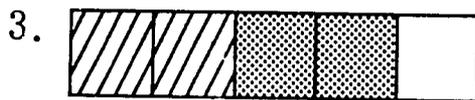
$$\frac{1}{4} + \frac{2}{4} = a$$

a is _____.



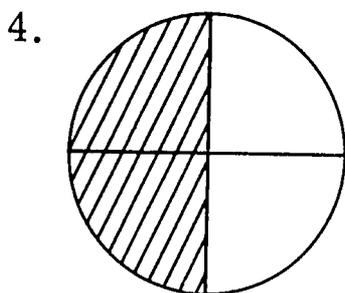
$$\frac{3}{6} + \frac{2}{6} = y$$

y is _____.



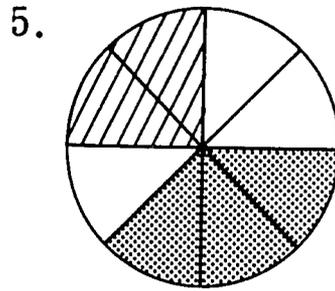
$$\frac{2}{5} + \frac{2}{5} = b$$

b is _____.



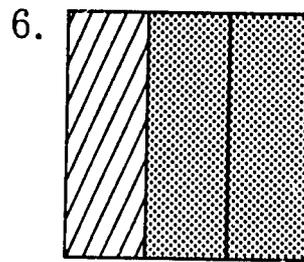
$$\frac{2}{4} + \frac{0}{4} = z$$

z is _____.



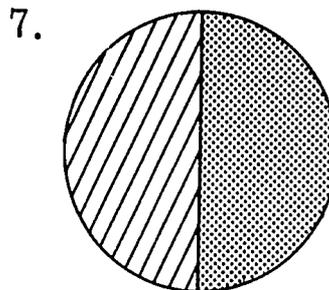
$$\frac{2}{8} + \frac{3}{8} = m$$

m is _____.



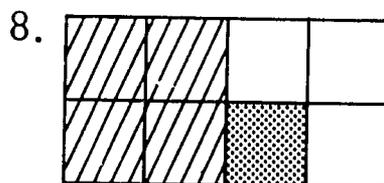
$$\frac{1}{3} + \frac{2}{3} = c$$

c is _____.



$$\frac{1}{2} + \frac{1}{2} = n$$

n is _____.



$$\frac{4}{8} + \frac{1}{8} = w$$

w is _____.

1. $\frac{4}{10} + \frac{3}{10} = \frac{4 + 3}{10} = \square$

2. $\frac{2}{3} + \frac{2}{3} = \frac{2 + 2}{3} = \square$

3. $\frac{5}{6} + \frac{1}{6} = \frac{5 + 1}{6} = \square$

4. $\frac{1}{4} + \frac{2}{4} = \frac{1 + 2}{4} = \square$

5. $\frac{3}{5} + \frac{2}{5} = \frac{3 + 2}{5} = \square$

6. $\frac{6}{12} + \frac{2}{12} = \frac{6 + 2}{12} = \square$

7. $\frac{2}{8} + \frac{0}{8} = \frac{2 + 0}{8} = \square$

8. $\frac{6}{9} + \frac{1}{9} = \square$

12. $\frac{4}{3} + \frac{2}{3} = \square$

9. $\frac{3}{4} + \frac{4}{4} = \square$

13. $\frac{0}{6} + \frac{2}{6} = \square$

10. $\frac{2}{7} + \frac{4}{7} = \square$

14. $\frac{1}{8} + \frac{5}{8} = \square$

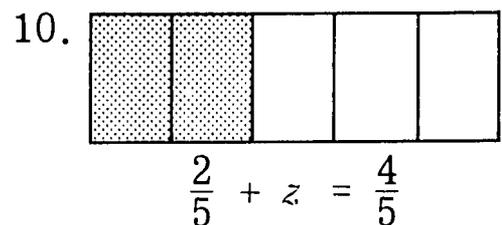
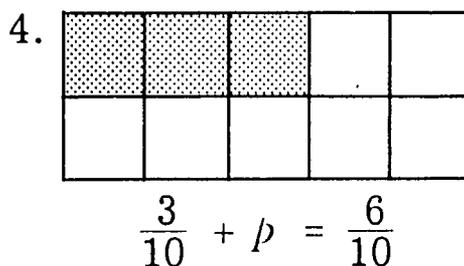
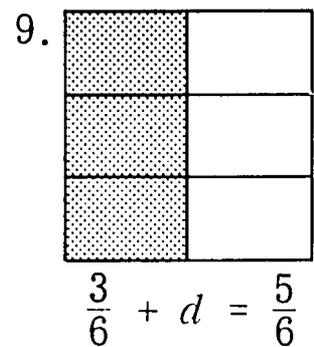
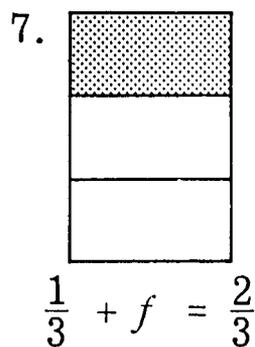
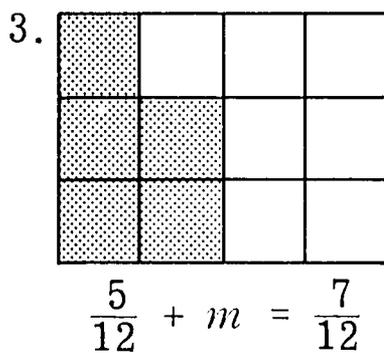
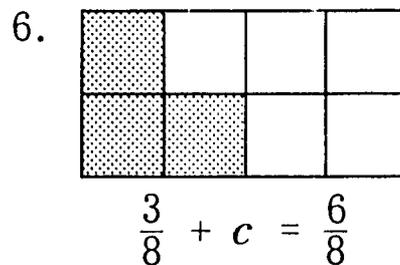
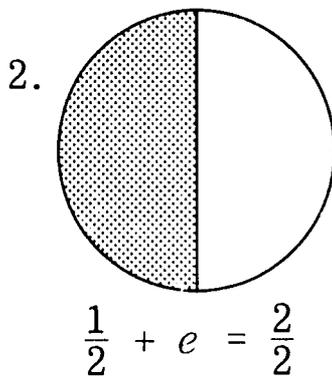
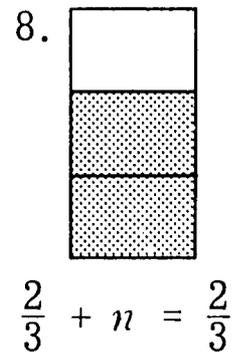
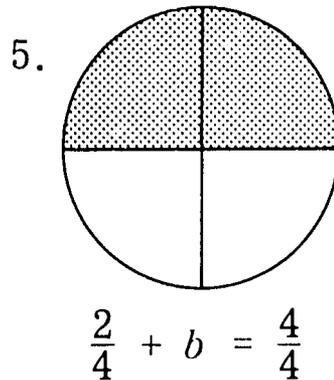
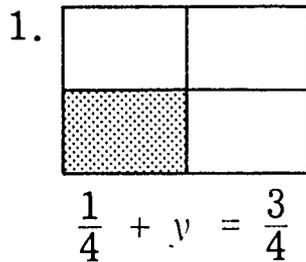
11. $\frac{1}{10} + \frac{2}{10} = \square$

15. $\frac{1}{2} + \frac{1}{2} = \square$

True or false?

1. $\left(\frac{2}{5} + \frac{1}{5}\right) + \frac{3}{5} = \frac{2}{5} + \left(\frac{1}{5} + \frac{3}{5}\right)$
2. $3 \times \frac{1}{4} = \frac{1}{4} + \frac{2}{4}$
3. $\frac{2}{6} + \frac{3}{6} = \frac{3}{6} + \frac{2}{6}$
4. $\frac{3}{8} + \left(\frac{2}{8} + \frac{5}{8}\right) = \left(\frac{3}{8} + \frac{2}{8}\right) + \frac{4}{8}$
5. $\frac{1}{6} + \frac{5}{6} = 1$
6. $5 \times \frac{1}{8} = \frac{2}{8} + \frac{4}{8}$
7. $\frac{7}{4} + \frac{3}{4} = \frac{2}{4} + \frac{7}{4}$
8. $\frac{1}{2} = 6 \times \frac{1}{12}$
9. $\left(\frac{1}{4} + \frac{2}{4}\right) + \frac{3}{4} = \frac{3}{2}$
10. $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{2}{3}$
11. $2 \times \left(\frac{1}{6} + \frac{1}{6}\right) = 2 \times \frac{2}{6}$
12. $3 \times \left(\frac{1}{8} + \frac{2}{8}\right) = \frac{6}{8}$
13. $\frac{2}{3} = \left(\frac{1}{3} + \frac{1}{3}\right) + \left(\frac{1}{3} + \frac{0}{3}\right)$
14. $\left(\frac{2}{3} + \frac{1}{3}\right) + \frac{1}{3} = \frac{2}{3} + \frac{2}{3}$

Shade the region for the missing addend.
What number makes the sentence true?



Find the missing addend. What is n ?

1. $\frac{2}{3} + n = \frac{3}{3}$

n is _____.

2. $\frac{2}{4} + n = \frac{3}{4}$

n is _____.

3. $n + \frac{1}{6} = \frac{4}{6}$

n is _____.

4. $n + \frac{1}{8} = \frac{2}{8}$

n is _____.

5. $\frac{3}{6} + n = \frac{5}{6}$

n is _____.

6. $\frac{4}{6} + n = \frac{6}{6}$

n is _____.

7. $n + \frac{1}{4} = \frac{4}{4}$

n is _____.

8. $n + \frac{3}{5} = \frac{4}{5}$

n is _____.

9. $\frac{6}{8} + n = \frac{8}{8}$

n is _____.

10. $\frac{1}{5} + n = \frac{4}{5}$

n is _____.

11. $n + \frac{2}{6} = \frac{5}{6}$

n is _____.

12. $n + \frac{1}{4} = \frac{3}{4}$

n is _____.

13. $\frac{3}{12} + n = \frac{8}{12}$

n is _____.

14. $\frac{1}{10} + n = \frac{8}{10}$

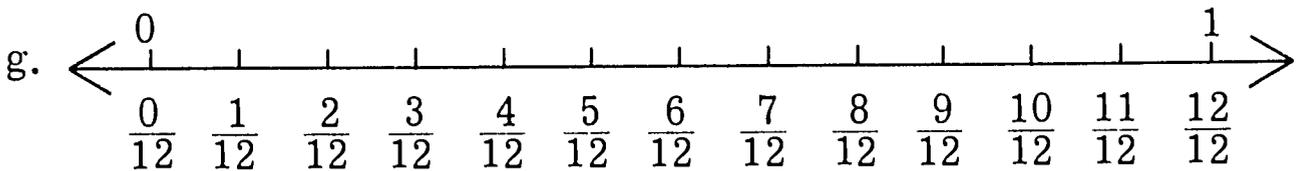
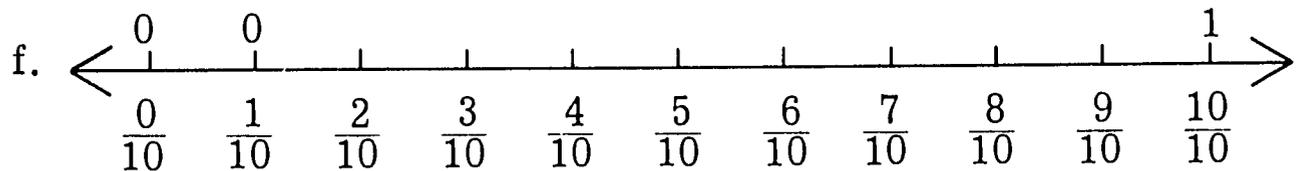
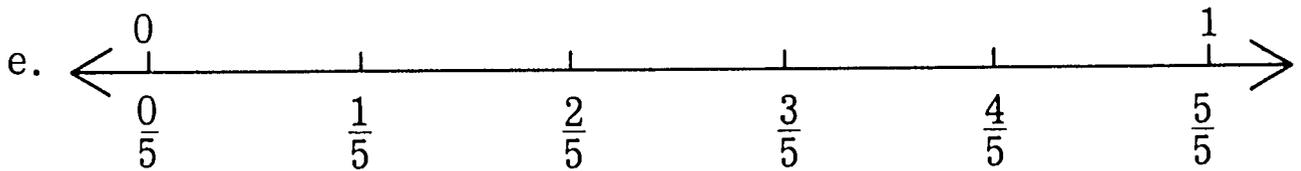
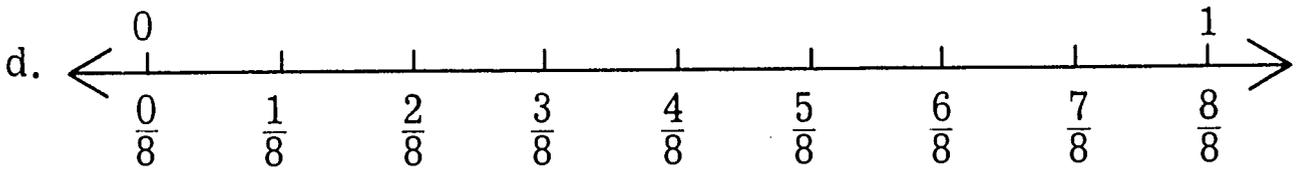
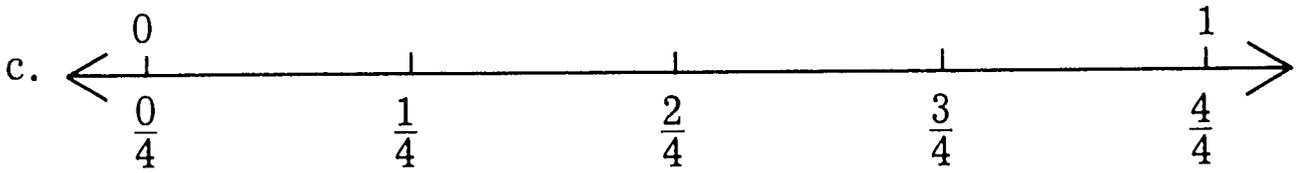
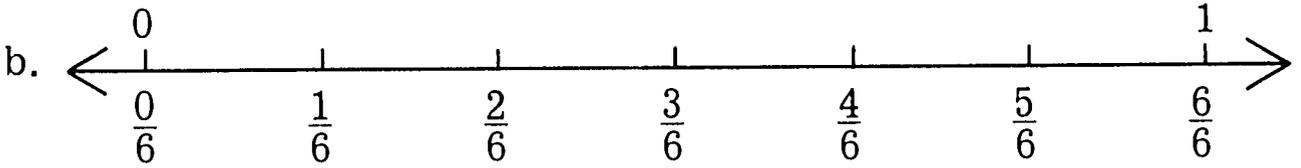
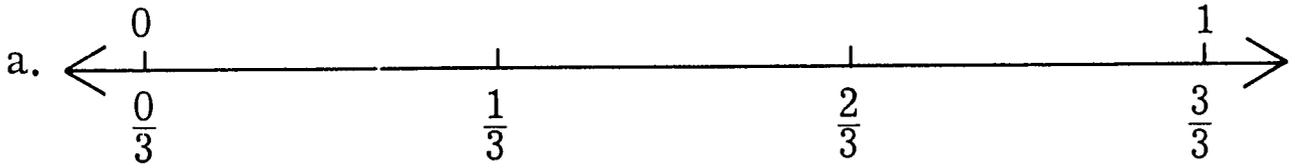
n is _____.

15. $n + \frac{2}{8} = \frac{6}{8}$

n is _____.

16. $\frac{9}{12} + n = \frac{10}{12}$

n is _____.



A
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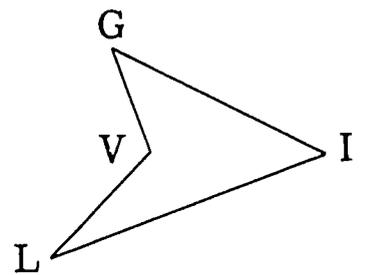
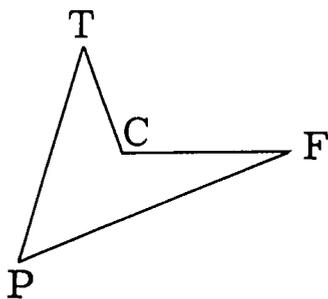
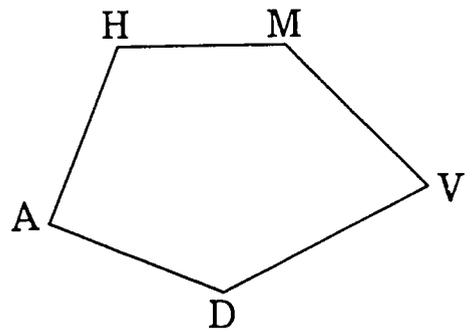
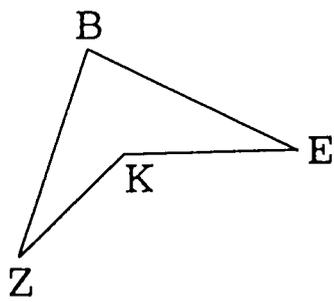
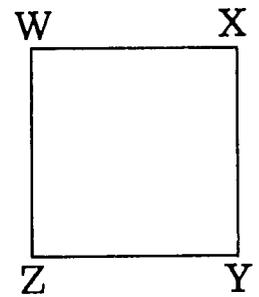
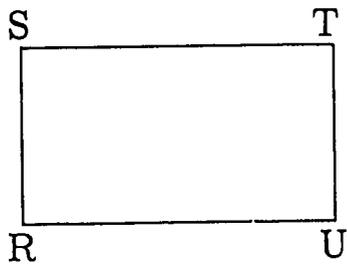
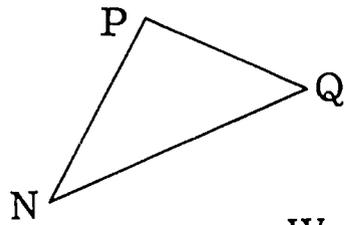
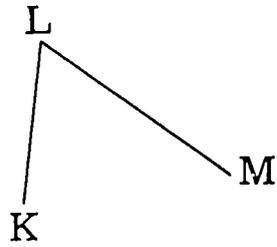
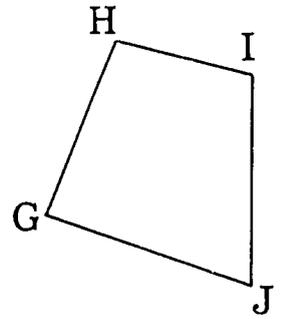
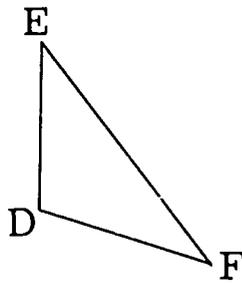
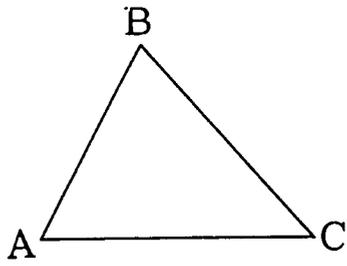
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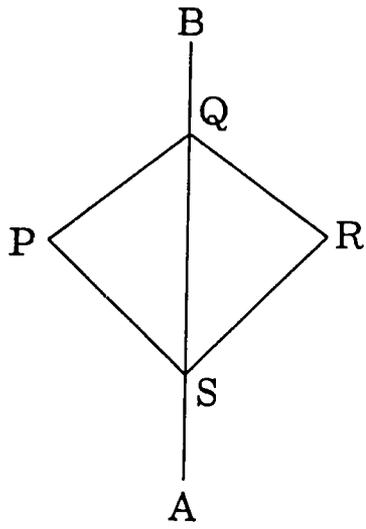
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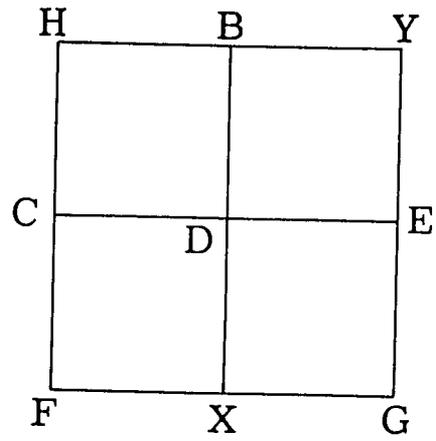
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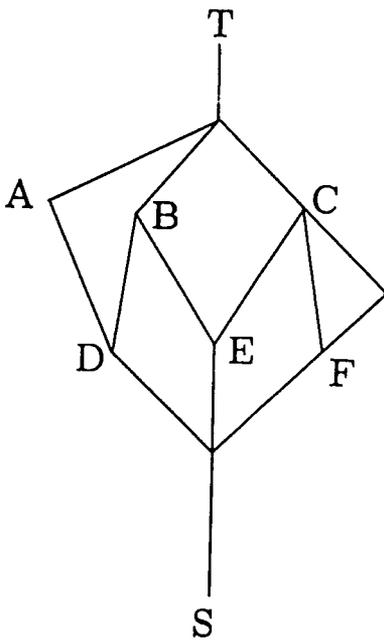
1.



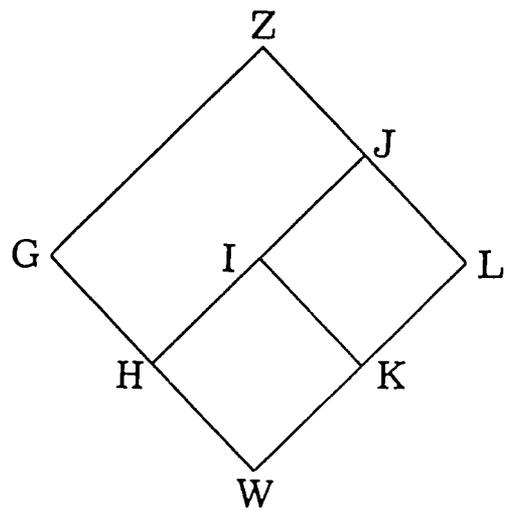
2.

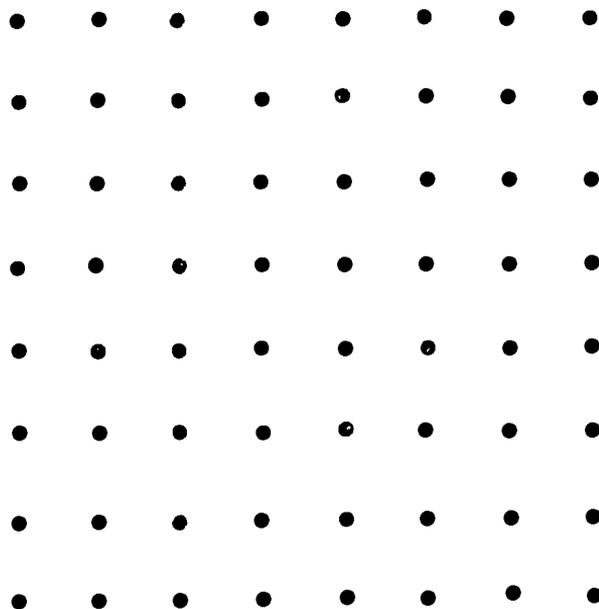
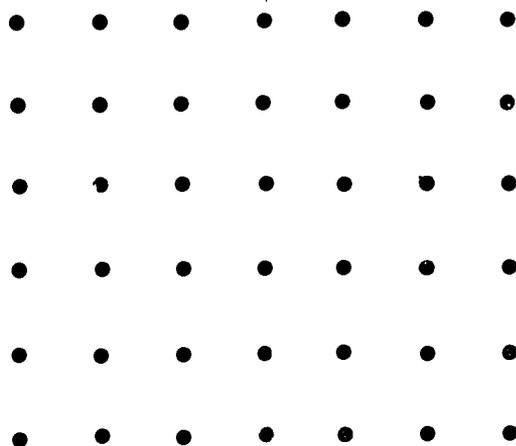
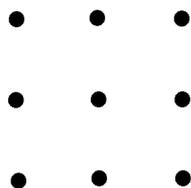


3.



4.





Find the number that makes the sentence true.

1. $6 \times 4 = c$, c is _____.
2. $3 \times 8 = d$, d is _____.
3. $5 \times t = 35$, t is _____.
4. $n \times 9 = 63$, n is _____.
5. $5 \times 9 = b$, b is _____.
6. $8 \times 9 = g$, g is _____.
7. $10 \times 9 = y$, y is _____.
8. $25 \div n = n$, n is _____.
9. $8 \times 7 = z$, z is _____.
10. $(2 + 1) \times m = 24$, m is _____.
11. $17 - 7 = y$, y is _____.
12. $(2 + h) \times 6 = 30$, h is _____.

Find the number that makes the sentence true.

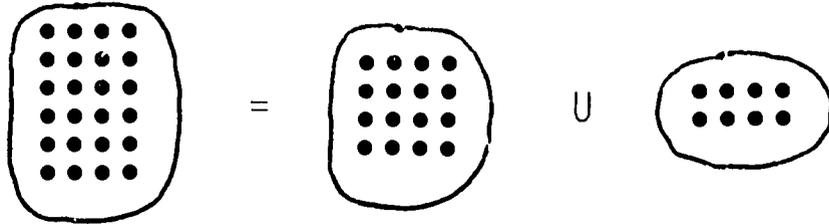
1. $4 \times 9 = a$, a is _____.
2. $6 \times 7 = c$, c is _____.
3. $9 \times p = 45$, p is _____.
4. $(5 \times 8) + 5 = h$, h is _____.
5. $7 \times 8 = m$, m is _____.
6. $6 \times 10 = g$, g is _____.
7. $8 \times 8 = d$, d is _____.
8. $9 \times 7 = b$, b is _____.
9. $9 \times y = 72$, y is _____.
10. $(3 + 4) \times (4 - 1) = k$ k is _____.
11. $(12 - 3) \times 4 = b$, b is _____.
12. $90 \div 10 = f$, f is _____.

Find the missing numbers.

1. 48 is a multiple of ___ because $6 \times \underline{\quad}$ is 48.
2. ___ is a multiple of 7 because 7×5 is ___.
3. 64 is a multiple of ___ because $\underline{\quad} \times 8$ is 64.
4. 45 is a multiple of ___ because $\underline{\quad} \times 5$ is 45.
5. ___ is a multiple of 10 because 10×10 is ___.
6. ___ is a multiple of 7 because 7×9 is ___.
7. 28 is a multiple of ___ because $\underline{\quad} \times 4$ is 28.
8. 54 is a multiple of ___ because $\underline{\quad} \times 6$ is 54.
9. ___ is a multiple of 8 because 8×6 is ___.
10. ___ is a multiple of 8 because 8×9 is ___.
11. ___ is a multiple of 9 because 9×6 is ___.
12. 81 is a multiple of ___ because $\underline{\quad} \times 9$ is 81.

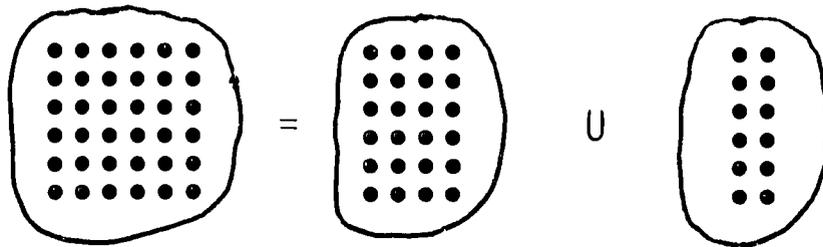
Write sentences for the arrays.

1.



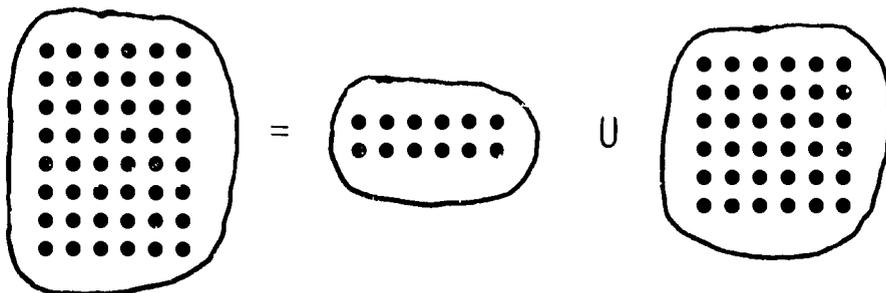
$$(\underline{\quad} \times \underline{\quad}) = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad})$$

2.



$$(\underline{\quad} \times \underline{\quad}) = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad})$$

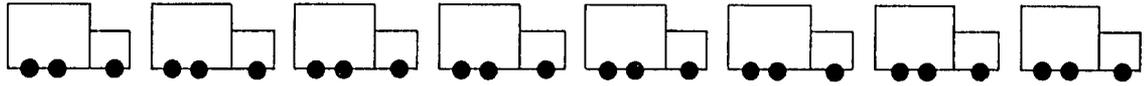
3.



$$(\underline{\quad} \times \underline{\quad}) = (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad})$$

 Story Problems

1.



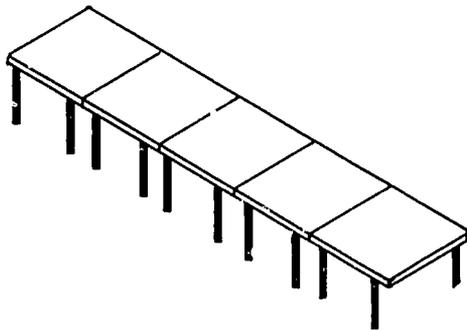
A child counted the wheels of 8 lorries. There were 6 wheels on each lorry. How many wheels did he count?

2.



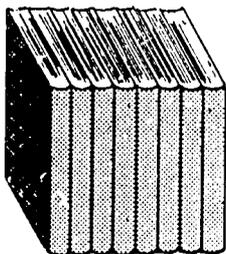
Kato is giving money to his 5 sisters. He gives each girl 9 shillings. How many shillings does he give to his sisters?

3.



Each dining table is 7 feet long. I put 5 tables together, end to end, for a party. How many feet long is the party table?

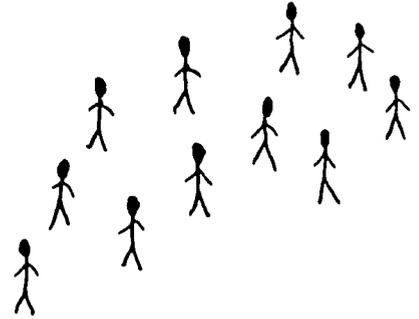
4.



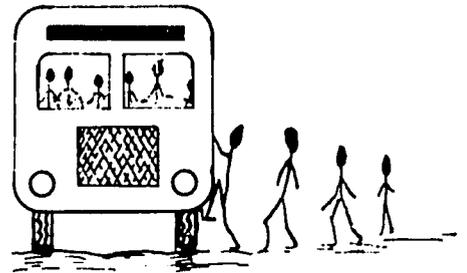
Six girls help the teacher to carry books home for marking. Each girl carries 8 books. How many books altogether has the teacher to mark?

Story Problems

5. Eleven countries of Africa sent people to Tokyo. Each country sent 6 people. How many Africans were sent to Tokyo?



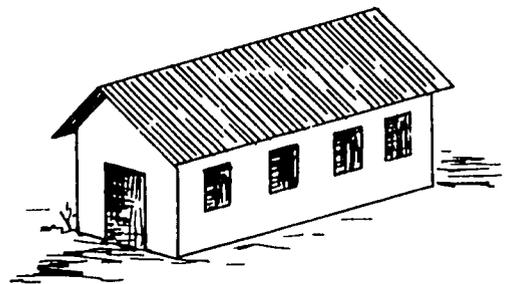
6. There are three people on each seat on a bus. There are 33 people on the bus. How many seats does the bus have?



7. Bacon costs 5 shillings a pound. How many pounds of bacon did Nakas buy for 35 shillings?



8. The fee at a school in Liberia is 8 dollars for each pupil. What is the fee for 12 pupils?



Make the sentences true.

1. $8 \times 3 = a$, a is _____.
2. $9 \times 4 = d$, d is _____.
3. $h \times 4 = 48$, h is _____.
4. $8 \times 5 = y$, y is _____.
5. $4 \times 11 = b$, b is _____.
6. $9 \times z = 54$, z is _____.
7. $6 \times 11 = m$, m is _____.
8. $7 \times 10 = c$, c is _____.
9. $(3 + 4) \times 12 = g$, g is _____.
10. $9 \times (7 + 5) = n$, n is _____.
11. $12 \times (8 - 3) = p$, p is _____.
12. $9 \times (10 - 1) = q$, q is _____.

Find the number that makes the sentence true.

1. $7 \times 9 = c$, c is _____.

2. $12 \times a = 60$, a is _____.

3. $11 \times d = 77$, d is _____.

4. $8 \times 9 = d$, d is _____.

5. $(92 - 2) = (10 \times y)$, y is _____.

6. $(5 + 7) \times 7 = h$, h is _____.

7. $7 \times 12 = g$, g is _____.

8. $a \times 12 = 48$, a is _____.

9. $96 \div (5 + 3) = p$, p is _____.

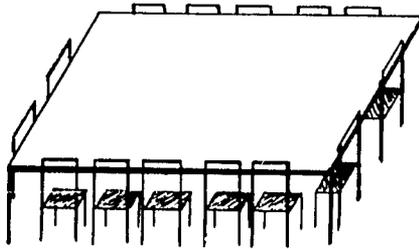
10. $(5 + 2) \times n = 56$, n is _____.

11. $132 = (4 + 8) \times g$, g is _____.

12. $(n + 3) \times 8 = 64$, n is _____.

Story Problems

1.



There are fourteen people in Juma's family. They all go to eat in a hotel. Juma pays 3 shillings for each person. How many shillings does he pay altogether?

2. There are 8 tables in a dining room. There are 96 people coming to dinner. We will seat the same number of people at each table. How many will be seated at each table?

3. On a holiday trip, Kapa walked 12 miles each day. He walked for 11 days. How many miles did he walk altogether?

4. The teacher has separated his class into 5 equal groups. There are 40 pupils in his class. How many children are there in each group?

5. Kofi planted 48 trees in his field. There are 8 trees in each row. How many rows of trees did Kofi plant?

Find the number that makes the sentence true.

1. $9 \times 10 = m$, m is _____.
2. $6 \times n = 48$, n is _____.
3. $6 \times k = 54$, k is _____.
4. $12 \times 12 = c$, c is _____.
5. $(94 + 2) = (12 \times h)$, h is _____.
6. $100 = (5 \times 2) \times c$, c is _____.
7. $10 \times h = 110$, h is _____.
8. $84 \div (7 + 5) = g$, g is _____.
9. $(8 + 3) \times y = 88$, y is _____.
10. $108 = (b \times 12)$, b is _____.
11. $12 \times 12 = (10 \times 12) + m$, m is _____.
12. $(4 + 7) \times 4 = 39 + z$, z is _____.

Story Problems

1. Five boys collected mangoes. Each boy collected 6 mangoes. They put them all in one basket. How many mangoes are in the basket?
-

2. Teams from nine schools played in football matches. There are 11 players on each team. How many boys played in the matches?
-

3.



The 36 girls in a class are skipping with ropes. They are skipping in groups of 4 girls each. Each group has one rope. How many ropes are in use?

4. Ten children are collecting tins. Each child brings 8 tins. The teacher tells them to put all their tins in one row. How many tins are in the row?
-

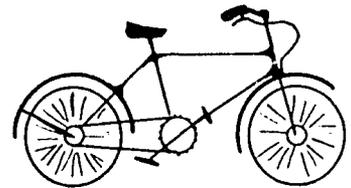
5. A teacher forms teams from the 49 children in his class. There are 7 children on each team. How many teams are there?
-

Story Problems

1. A man is making 7 large boxes. He uses 75 nails for each box. How many nails will he use altogether?
-

2. There are 93 pupils in a school. Each pupil uses 9 pencils in a year. How many pencils are used by all the pupils in a year?
-

3. A bicycle costs 256 shillings. What is the cost of 8 bicycles?



-
4. Some men are making bricks. They put the bricks in rows on the ground to dry. There are 6 rows of bricks. There are 195 bricks in each row. How many bricks are drying?
-

5. There are 35 pupils in a class. Each pupil paid 15 shillings a term in fees. In one term, all the pupils paid all their fees. The teacher said, "The pupils paid 500 shillings altogether." Was he right? Why?
-

What number makes the sentence true?

1. $t = 5 \times 125$, t is _____.

2. $4 \times 76 = a$, a is _____.

3. $6 \times 87 = c$, c is _____.

4. $126 \times 7 = s$, s is _____.

5. $39 \times 8 = v$, v is _____.

6. $b = 291 \times 6$, b is _____.

7. $93 \times 7 = w$, w is _____.

8. $56 \times 6 = y$, y is _____.

9. $91 \times 9 = d$, d is _____.

Find the product

10. $309 \times 4 = \square$

12. $7 \times 708 = \square$

11. $5 \times 89 = \square$

13. $8 \times 176 = \square$

14.

$$\begin{array}{r} 247 \\ \times 9 \\ \hline \end{array}$$

15.

$$\begin{array}{r} 304 \\ \times 6 \\ \hline \end{array}$$

16.

$$\begin{array}{r} 408 \\ \times 8 \\ \hline \end{array}$$

17.

$$\begin{array}{r} 86 \\ \times 9 \\ \hline \end{array}$$

Find the products

$$\begin{array}{r} 1. \quad 137 \\ \quad \underline{4} \end{array}$$

$$\begin{array}{r} 2. \quad 209 \\ \quad \underline{6} \end{array}$$

$$\begin{array}{r} 3. \quad 326 \\ \quad \underline{7} \end{array}$$

$$\begin{array}{r} 4. \quad 809 \\ \quad \underline{3} \end{array}$$

$$\begin{array}{r} 5. \quad 80 \\ \quad \underline{8} \end{array}$$

$$\begin{array}{r} 6. \quad 129 \\ \quad \underline{9} \end{array}$$

$$\begin{array}{r} 7. \quad 356 \\ \quad \underline{6} \end{array}$$

$$\begin{array}{r} 8. \quad 148 \\ \quad \underline{7} \end{array}$$

$$\begin{array}{r} 9. \quad 970 \\ \quad \underline{7} \end{array}$$

$$\begin{array}{r} 10. \quad 253 \\ \quad \underline{8} \end{array}$$

$$\begin{array}{r} 11. \quad 705 \\ \quad \underline{9} \end{array}$$

$$\begin{array}{r} 12. \quad 623 \\ \quad \underline{5} \end{array}$$

$$\begin{array}{r} 13. \quad 308 \\ \quad \underline{9} \end{array}$$

$$\begin{array}{r} 14. \quad 168 \\ \quad \underline{8} \end{array}$$

Make a true sentence with $<$, $>$ or $=$.

1. 34×8 $_ _ _$ 66×4

2. 6×108 $_ _ _$ 73×9

3. 241×7 $_ _ _$ 193×8

4. $347 + 426$ $_ _ _$ 218×4

5. 3×99 $_ _ _$ 9×33

6. 6×208 $_ _ _$ $381 + 847$

7. 5×172 $_ _ _$ 97×8

8. $309 + 288$ $_ _ _$ 7×86

9. 487×5 $_ _ _$ 8×296

10. 7×218 $_ _ _$ $650 + 876$

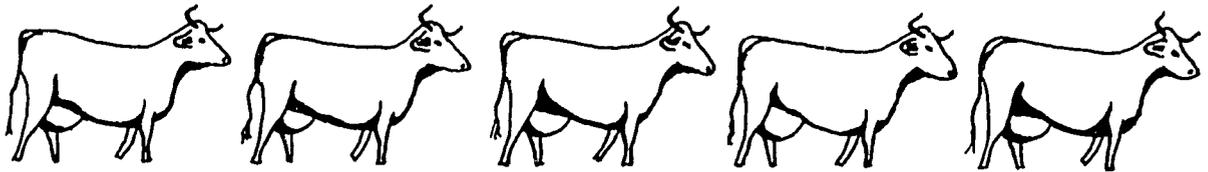
11. 3×781 $_ _ _$ 6×389

12. 538×8 $_ _ _$ 4×1076

Story Problems

1. A boy was asked by his father to make holes in the garden for planting seeds. There are 354 seeds. He will put 3 seeds in each hole. How many holes will he make?
-

2.



In Liberia, the people use dollars for money. John's father paid 230 dollars for 5 cows. What was the cost of each cow?

3. A man had 7 sons and many goats. He gave 187 goats to each son as a gift. How many goats did he give his sons altogether?
-

4. There are 222 people living in a village. There are 6 people living in each house. How many houses are in the village?
-

5. There are 5 houses in my school. Each house has 105 pupils. How many pupils are in the school?
-

Find the number that makes the sentence true.

1. $4 \times n = 208$, n is _____.

2. $5 \times 272 = a$, a is _____.

3. $720 \div 3 = c$, c is _____.

4. $6 \times v = 144$, v is _____.

5. $b = 6 \times 187$, b is _____.

6. $108 \div 9 = d$, d is _____.

7. $8 \overline{)280}$

10.
$$\begin{array}{r} 176 \\ \times 7 \\ \hline \end{array}$$

13. $7 \overline{)392}$

8. $5 \overline{)175}$

11. $8 \overline{)488}$

14. $9 \overline{)558}$

9. $6 \overline{)258}$

12.
$$\begin{array}{r} 208 \\ \times 9 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 357 \\ \times 8 \\ \hline \end{array}$$

Find the products.

1. $40 \times 50 = \square$

7. $70 \times 5 = \square$

2. $30 \times 70 = \square$

8. $70 \times 90 = \square$

3. $6 \times 80 = \square$

9. $7 \times 90 = \square$

4. $3 \times 11 = \square$

10. $90 \times 6 = \square$

5. $80 \times 11 = \square$

11. $60 \times 90 = \square$

6. $80 \times 110 = \square$

12. $50 \times 80 = \square$

What number makes the sentence true?

13. $40 \times a = 240$, a is _____.

14. $70 \times 70 = c$, c is _____.

15. $50 \times d = 3500$, d is _____.

16. $80 \times 70 = w$, w is _____.

17. $b \times 30 = 270$, b is _____.

18. $70 \times v = 6300$, v is _____.

19. $8 \times r = 560$, r is _____.

20. $80 \times s = 560$, s is _____.

Make a true sentence with $<$, $>$ or $=$.

1. 43×70 ___ ___ 56×6

2. $782 + 28$ ___ ___ 27×30

3. 72×30 ___ ___ 40×49

4. 60×39 ___ ___ 30×78

5. 40×27 ___ ___ $632 + 448$

6. 70×68 ___ ___ 8×829

7. 139×30 ___ ___ 70×61

Find the number that makes the sentence true.

8. $162 \times 70 = n$, n is _____.

9. $30 \times 478 = b$, b is _____.

10. $50 \times r = 350$, r is _____.

11. $471 \times 80 = t$, t is _____.

12. $60 \times 376 = s$, s is _____.

13. $30 \times v = 360$, v is _____.

Find the products.

$$\begin{array}{r} 1. \quad 43 \\ \quad 23 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 24 \\ \quad 17 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 35 \\ \quad 35 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 59 \\ \quad 70 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 48 \\ \quad 29 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 62 \\ \quad 45 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 39 \\ \quad 29 \\ \hline \end{array}$$

$$8. \quad 16 \times 34 = n, n \text{ is } \underline{\hspace{2cm}}.$$

$$\begin{array}{r} 9. \quad 83 \\ \quad 14 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 67 \\ \quad 36 \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 49 \\ \quad 36 \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 89 \\ \quad 18 \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 61 \\ \quad 47 \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 48 \\ \quad 35 \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 59 \\ \quad 48 \\ \hline \end{array}$$

$$16. \quad 95 \times 71 = s, s \text{ is } \underline{\hspace{2cm}}.$$

Find the products.

1. $(20 + 33) \times 36 = \square$

5. $163 \times 18 = \square$

2. $45 \times 106 = \square$

6. $(124 + 72) \times 38 = \square$

3. $230 \times 56 = \square$

7. $215 \times 73 = \square$

4. $46 \times (21 + 62) = \square$

8. $27 \times (37 + 83) = \square$

9. There are 12 inches in a foot. How many inches are there in 245 feet?

10. $33 \times 177 = \square$

13. $35 \times 165 = \square$

11. $(52 \times 13) + 420 = \square$

14. $254 \times 80 = \square$

12. $407 \times 36 = \square$

15. $(241 + 127) \times 25 = \square$

16. In Malawi the people use pounds and shillings for money. Twenty shillings make a pound. How many shillings make 346 pounds?

17. $142 + (37 \times 39) = \square$

18. $(15 \times 32) + 200 = \square$

Find the number that makes the sentence true.

1. $40 \times n = 640$, n is _____.

2. $450 \div 30 = b$, b is _____.

3. $11 \times e = 990$, e is _____.

4. $60 \times 160 = d$, d is _____.

5. $v + 746 = 1280$, v is _____.

6. $70 \times m = 840$, m is _____.

Solve the problems.

7. In Nigeria the people use pounds and shillings. Twenty shillings make a pound. Ike has 160 shillings. How many pounds does he have?

8. In a town there are 30 lights on each street. There are 420 lights in the town. How many streets are in the town?

9. A baker puts 40 biscuits in each box. Today he put 640 biscuits in boxes. How many boxes did he use?

Make the sentences true.

1. $12 \times n = 156$, n is _____.
 2. $472 \times 36 = v$, v is _____.
 3. $673 + 868 = b$, b is _____.
 4. $52 \times (37 + 41) = w$, w is _____.
 5. $60 \times a = 900$, a is _____.
 6. $1000 \div 10 = d$, d is _____.
 7. $496 + w = 1204$, w is _____.
 8. $(23 \times 32) - 425 = m$, m is _____.
-

Multiply or divide.

9. $9 \overline{)558}$

11. $70 \overline{)3360}$

13.
$$\begin{array}{r} 333 \\ \times 33 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 307 \\ \times 17 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 462 \\ \times 38 \\ \hline \end{array}$$

14. $80 \overline{)2960}$

Solve the problems.

1. Mary has 75 eggs. She puts the eggs in rows, with 6 in each row. How many rows of 6 eggs are there? How many eggs are left over?
-

2. Can 455 people be separated into 11 equal groups?
-

3. Find the number that makes this sentence true:

$$326 = (12 \times n) + 2$$

4. Can John share 38 marbles equally among his 3 friends? How many can he share equally? How many are left over?
-

5. In Zambia people use shillings and pence. Twelve pence may be exchanged for one shilling. Ura has 75 pence. She exchanges some of her pence for shillings. How many shillings does she get? How many pence does she have left?
-

What fraction, n , makes the sentence true?

1. $\frac{6}{12} + \frac{3}{12} = n$

2. $\frac{5}{10} + \frac{2}{10} = n$

3. $\frac{3}{8} + \frac{0}{8} = n$

4. $\frac{1}{3} + \frac{2}{3} = n$

5. $\frac{2}{5} + \frac{1}{5} = n$

6. $\frac{7}{10} + \frac{2}{10} = n$

7. $\frac{5}{12} + \frac{3}{12} = n$

8. $\frac{6}{12} + \frac{5}{12} = n$

9. $\frac{2}{6} + \frac{1}{6} = n$

10. $\frac{2}{5} + \frac{2}{5} = n$

11. $\frac{2}{6} + \frac{3}{6} = n$

12. $\frac{4}{12} + \frac{5}{12} = n$

13. $\frac{4}{6} + \frac{1}{6} = n$

14. $\frac{2}{5} + \frac{3}{5} = n$

15. $\frac{4}{8} + \frac{3}{8} = n$

16. $\frac{1}{3} + \frac{1}{3} = n$

17. $\frac{0}{4} + \frac{1}{4} = n$

18. $\frac{5}{8} + \frac{3}{8} = n$

19. $\frac{5}{10} + \frac{5}{10} = n$

20. $\frac{6}{10} + \frac{3}{10} = n$

Find the missing numbers.

1.

$$\begin{array}{r} (n, \frac{3}{5}) \\ + \\ \frac{5}{5} \\ \hline \end{array}$$

2.

$$\begin{array}{r} (a, \frac{3}{7}) \\ + \\ \frac{5}{7} \\ \hline \end{array}$$

3.

$$\begin{array}{r} (b, \frac{1}{2}) \\ + \\ \frac{5}{2} \\ \hline \end{array}$$

4.

$$\begin{array}{r} (\frac{4}{6}, m) \\ + \\ \frac{7}{6} \\ \hline \end{array}$$

5.

$$\begin{array}{r} (\frac{1}{8}, t) \\ + \\ \frac{7}{8} \\ \hline \end{array}$$

6.

$$\begin{array}{r} (x, \frac{5}{12}) \\ + \\ \frac{11}{12} \\ \hline \end{array}$$

7.

$$\begin{array}{r} (\frac{2}{10}, a) \\ + \\ \frac{9}{10} \\ \hline \end{array}$$

8.

$$\begin{array}{r} (\frac{3}{7}, \frac{2}{7}) \\ + \\ x \\ \hline \end{array}$$

9.

$$\begin{array}{r} (b, \frac{4}{9}) \\ + \\ \frac{7}{9} \\ \hline \end{array}$$

10.

$$\begin{array}{r} (\frac{4}{15}, c) \\ + \\ \frac{13}{15} \\ \hline \end{array}$$

11.

$$\begin{array}{r} (d, \frac{3}{14}) \\ + \\ \frac{11}{14} \\ \hline \end{array}$$

12.

$$\begin{array}{r} (\frac{3}{8}, \frac{7}{8}) \\ + \\ c \\ \hline \end{array}$$

$$\begin{aligned} 1. \quad \frac{5}{6} &= \frac{3}{6} + a \\ \frac{5}{6} - \frac{3}{6} &= a \end{aligned}$$

$$\begin{aligned} 7. \quad \frac{4}{5} &= \frac{2}{5} + x \\ \frac{4}{5} - \frac{2}{5} &= x \end{aligned}$$

$$\begin{aligned} 2. \quad \frac{5}{12} + b &= \frac{9}{12} \\ b &= \frac{9}{12} - \frac{5}{12} \end{aligned}$$

$$\begin{aligned} 8. \quad \frac{3}{12} + b &= \frac{7}{12} \\ b &= \frac{7}{12} - \frac{3}{12} \end{aligned}$$

$$\begin{aligned} 3. \quad \frac{7}{8} &= \frac{5}{8} + y \\ \frac{7}{8} - \frac{5}{8} &= y \end{aligned}$$

$$\begin{aligned} 9. \quad \frac{5}{8} &= \frac{1}{8} + e \\ \frac{5}{8} - \frac{1}{8} &= e \end{aligned}$$

$$\begin{aligned} 4. \quad \frac{2}{3} + c &= \frac{3}{3} \\ c &= \frac{3}{3} - \frac{2}{3} \end{aligned}$$

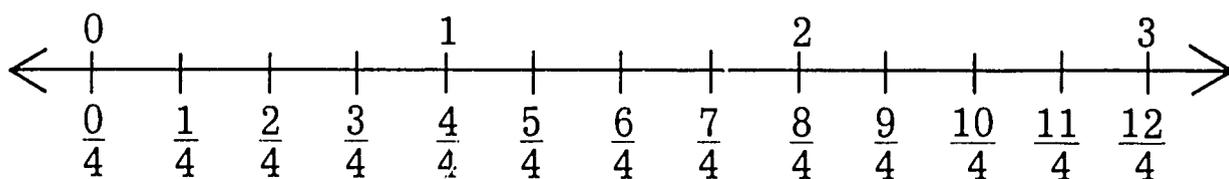
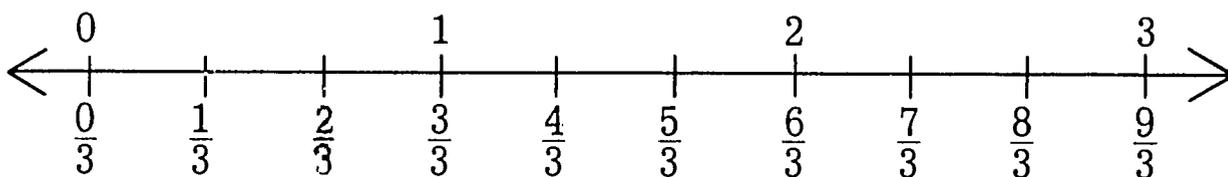
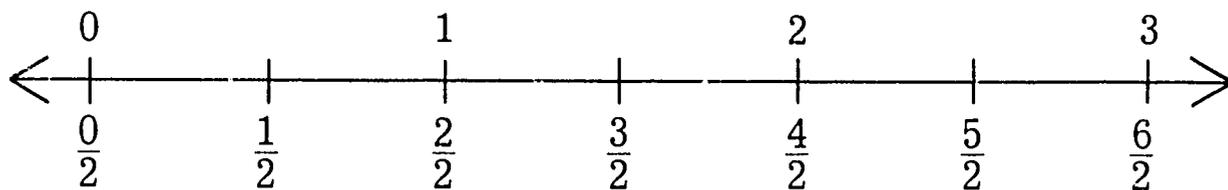
$$\begin{aligned} 10. \quad \frac{3}{10} + y &= \frac{7}{10} \\ y &= \frac{7}{10} - \frac{3}{10} \end{aligned}$$

$$\begin{aligned} 5. \quad \frac{9}{10} &= \frac{9}{10} + r \\ \frac{9}{10} - \frac{9}{10} &= r \end{aligned}$$

$$\begin{aligned} 11. \quad \frac{6}{6} &= \frac{4}{6} + s \\ \frac{6}{6} - \frac{4}{6} &= s \end{aligned}$$

$$\begin{aligned} 6. \quad \frac{1}{4} + s &= \frac{3}{4} \\ s &= \frac{3}{4} - \frac{1}{4} \end{aligned}$$

$$\begin{aligned} 12. \quad \frac{2}{12} + a &= \frac{7}{12} \\ a &= \frac{7}{12} - \frac{2}{12} \end{aligned}$$



Give other names to these numbers.

1. $\frac{5}{2} = \frac{4}{2} + \frac{1}{2} = 2 + \frac{1}{2}$

2. $\frac{5}{3} =$

3. $\frac{3}{2} =$

4. $\frac{7}{4} =$

5. $\frac{8}{3} =$

6. $\frac{11}{4} =$

7. $\frac{4}{3} =$

8. $\frac{9}{4} =$

9. $1 + \frac{1}{2} = \frac{2}{2} + \frac{1}{2} = \frac{3}{2}$

10. $1 + \frac{2}{3} =$

11. $2 + \frac{1}{4} =$

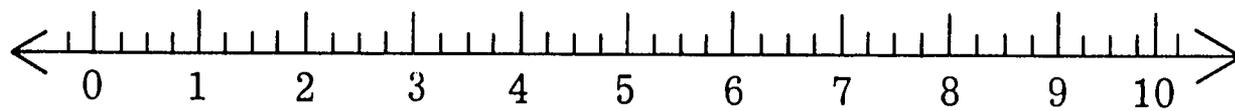
12. $1 + \frac{1}{3} =$

13. $2 + \frac{3}{4} =$

14. $2 + \frac{1}{3} =$

15. $2 + \frac{1}{2} =$

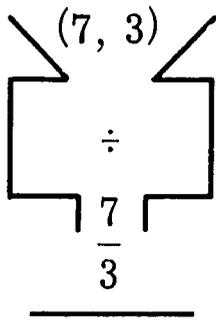
16. $1 + \frac{1}{4} =$



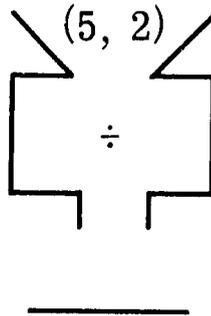
1.	$\frac{5}{4}$	$5 \div 4$	$1 + \frac{1}{4}$
2.	$\frac{7}{2}$	$7 \div 2$	
3.		$8 \div 4$	2
4.		$5 \div 2$	
5.	$\frac{7}{4}$		
6.	$\frac{8}{2}$		
7.		$9 \div 4$	
8.	$\frac{3}{2}$		

Division Machines

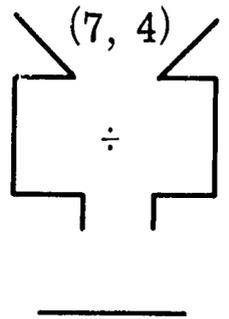
1.



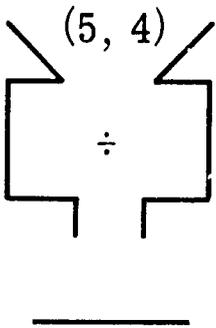
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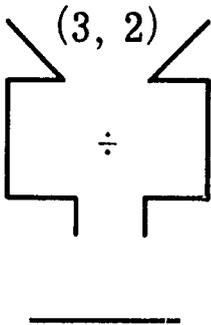
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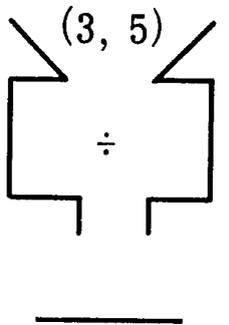
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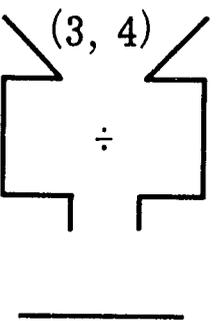
5.



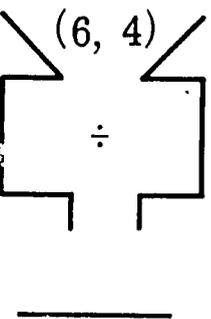
6.



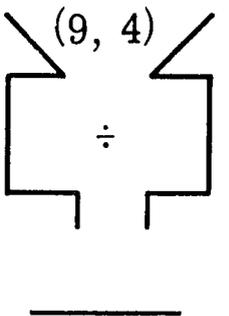
7.



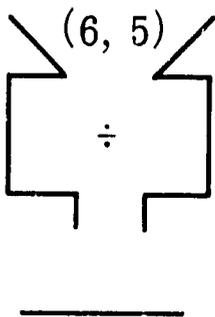
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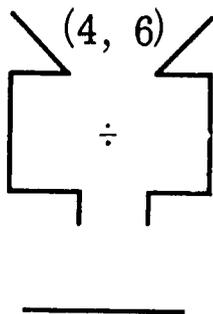
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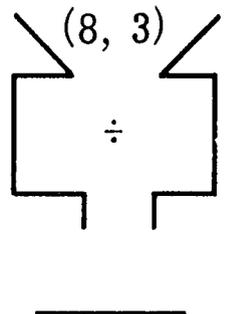
10.



11.



12.



Find the codes.

1.

$$\begin{array}{r} T 2 4 \\ + T M 8 \\ \hline 1 6 6 2 \end{array}$$

2.

$$\begin{array}{r} 1 6 S \\ + Q S 3 \\ \hline 1 0 8 5 \end{array}$$

3.

$$\begin{array}{r} 5 R 3 \\ + 1 R R \\ \hline 7 7 1 \end{array}$$

4.

$$\begin{array}{r} A B C \\ + 2 2 3 \\ \hline 9 0 1 \end{array}$$

5.

$$\begin{array}{r} W X 3 \\ + 6 W 1 \\ \hline 9 0 4 \end{array}$$

6.

$$\begin{array}{r} 2 R 2 \\ + S 1 S \\ \hline 1 1 8 1 \end{array}$$

7.

$$\begin{array}{r} 4 N T \\ + 1 6 N \\ \hline 6 2 1 \end{array}$$

8.

$$\begin{array}{r} X Y 1 \\ + 1 X 5 \\ \hline 1 0 0 6 \end{array}$$

9.

$$\begin{array}{r} F 6 5 \\ - 1 G F \\ \hline 3 3 1 \end{array}$$

10.

$$\begin{array}{r} 9 K 3 \\ - L 2 6 \\ \hline 5 5 7 \end{array}$$

11.

$$\begin{array}{r} 8 M P \\ - 3 6 6 \\ \hline 4 8 8 \end{array}$$

12.

$$\begin{array}{r} 6 6 6 \\ - R S T \\ \hline 3 7 5 \end{array}$$

13.

$$\begin{array}{r} 1 Y \\ \times 2 \\ \hline 2 6 \end{array}$$

14.

$$\begin{array}{r} Z 3 \\ \times 3 \\ \hline 6 9 \end{array}$$

15.

$$\begin{array}{r} 1 0 \\ \times W \\ \hline 6 0 \end{array}$$

16.

$$\begin{array}{r} 1 U \\ \times U \\ \hline 3 9 \end{array}$$

What number am I?

1. I am a number. I am 8 more than 1.

2. I am a number. I am 7 more than 3×2 .

3. I am a number. If you add 9 to me you get 13.

4. I am a number. If you multiply me by 2 and subtract 3, you get 3.

5. I am a number. If you multiply me by 2 and subtract me from the result, you get 8.

6. Think of a number. Double it. Subtract the number you thought of from the result. Do you get the number you started with? Why?

Continue the patterns.

1. 2 , 4 , 6 , _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

2. 1 , 3 , 5 , _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

3. 5 , 10 , 15 , _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

4. 10 , 9 , 8 , _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

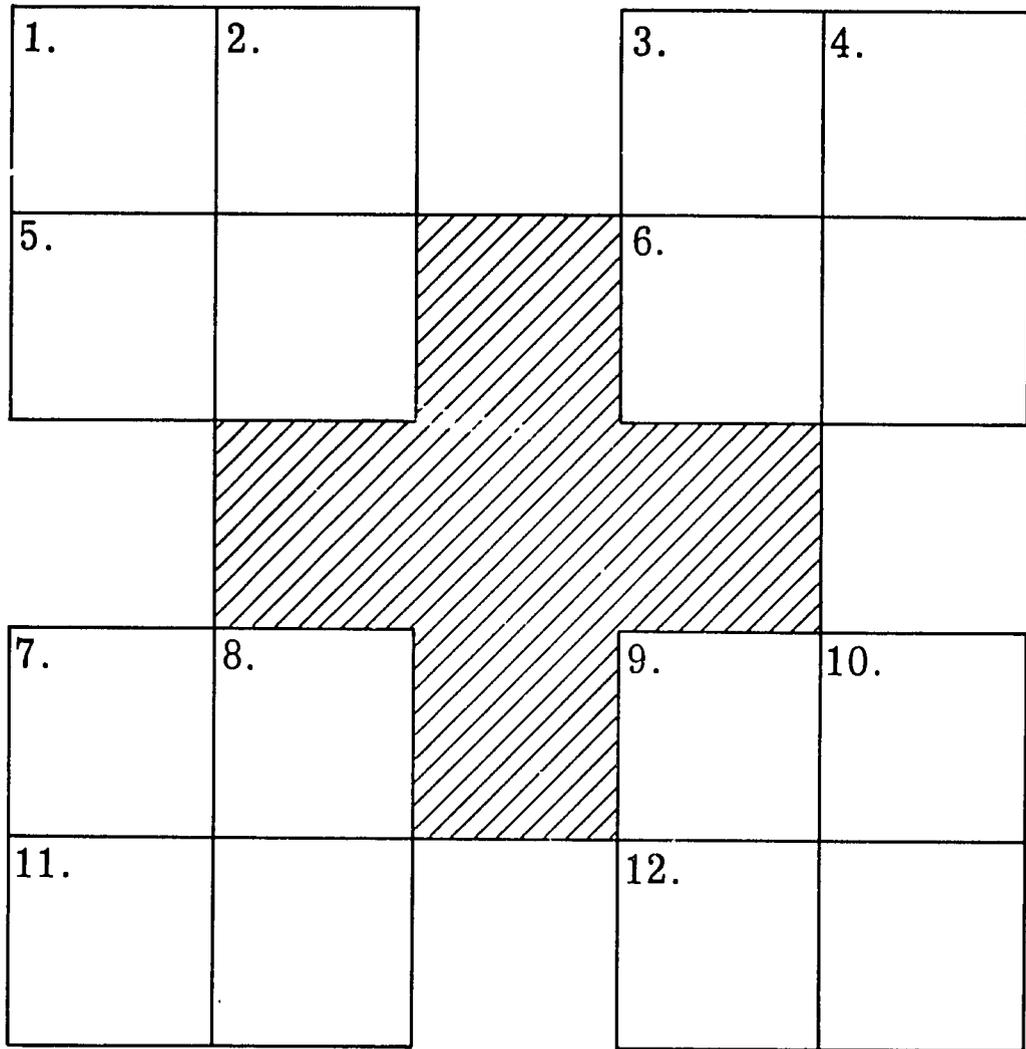
5. 10 , 20 , 30 , _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

6. 1000 , 900 , 800 , _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

7. 60 , 58 , 56 , _____ , _____ , _____ , _____ , _____ , _____ , _____ , _____

8. 1 , 2 , 4 , 8 , _____ , _____ , _____ , _____ , _____ , _____ , _____

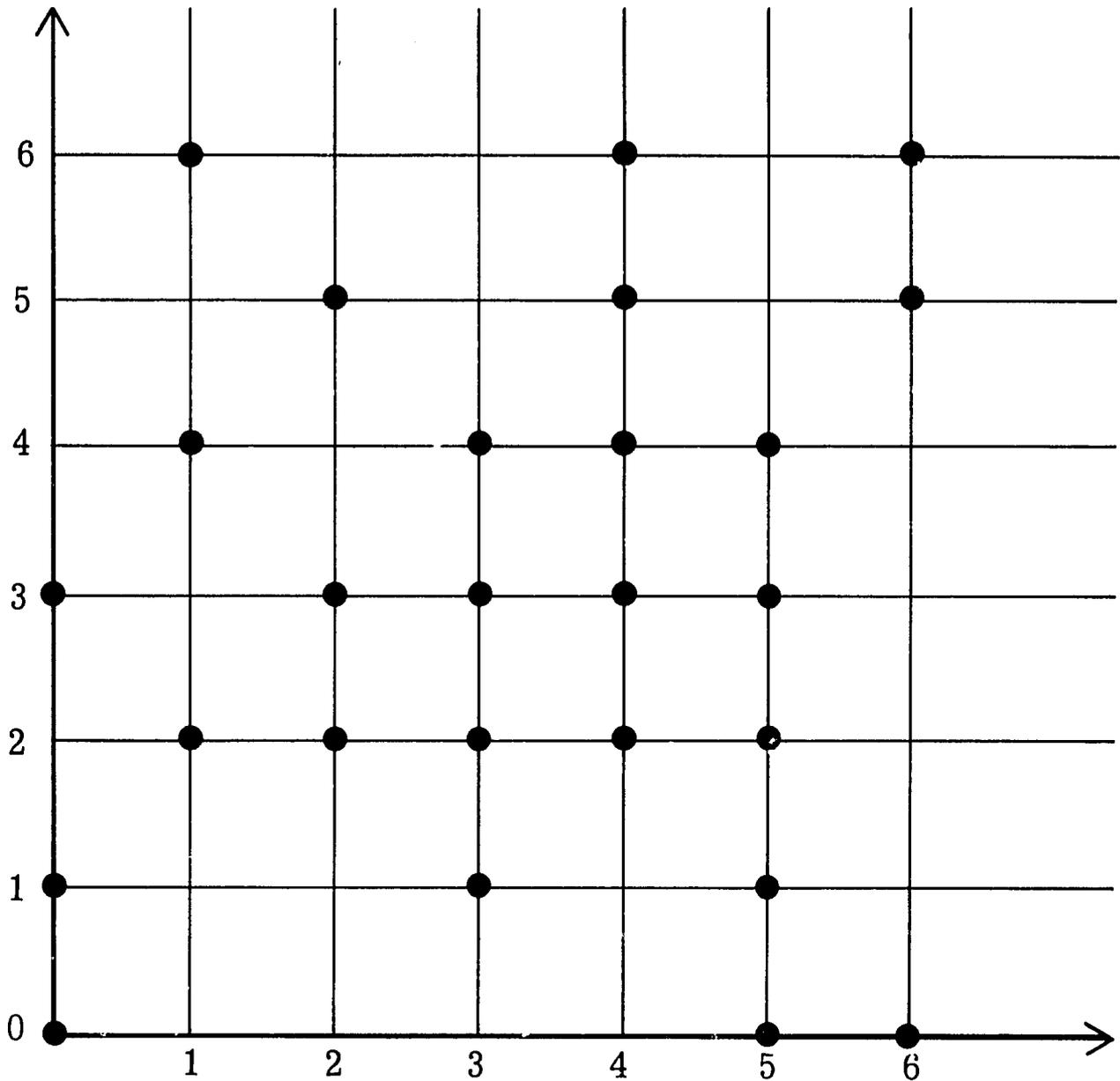
9. 1 , 3 , 6 , 10 , _____ , _____ , _____ , _____ , _____ , _____ , _____



Across

Down

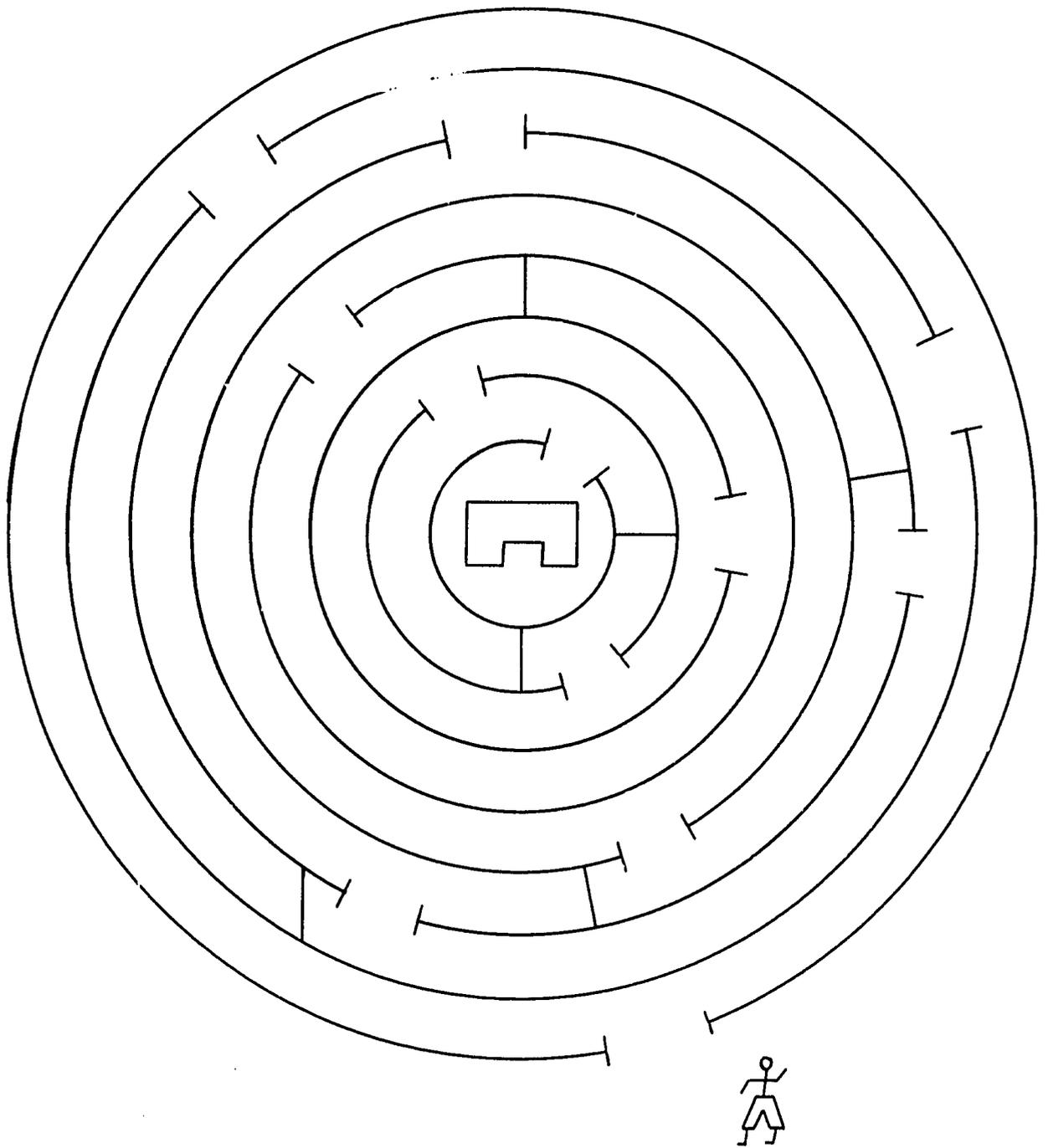
- | | |
|-----------------------------|------------------------------------|
| 1. $(5 \times 6) + 3$ | 1. Product of 3 and 10 added to 3. |
| 3. $(7 \times 7) + 5$ | 2. Six fives plus 4 |
| 5. 6×5 and 4 more. | 3. Five tens plus 3. |
| 6. 5 sixes plus 9. | 4. Product of 7 and 7 |
| 7. Four 2's plus 7. | 7. 1 foot in inches. |
| 9. Six tens and 2 ones | 8. 4 elevens plus 10. |
| 11. 3 times 6 plus 6. | 9. $(6 \times 10) + 1$ |
| 12. 2×5 plus 8. | 10. 4×7 |



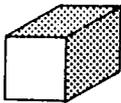
Cover these points with seeds.

- | | | | |
|-----------|-----------|-----------|-----------|
| a. (2, 3) | f. (4, 2) | k. (5, 1) | p. (0, 1) |
| b. (3, 3) | g. (5, 0) | l. (0, 0) | q. (6, 5) |
| c. (3, 4) | h. (4, 3) | m. (1, 2) | r. (4, 6) |
| d. (2, 2) | i. (5, 3) | n. (4, 4) | s. (6, 0) |
| e. (5, 2) | j. (0, 3) | o. (2, 5) | t. (1, 6) |

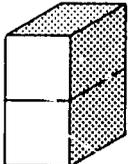
What points are marked and not covered?



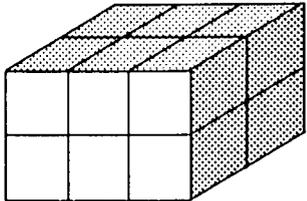
A



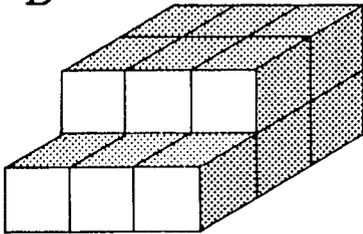
B



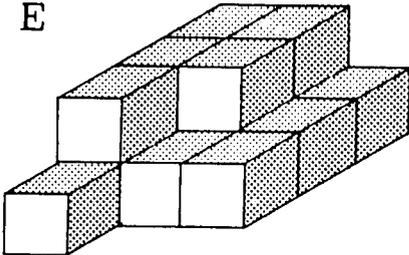
C



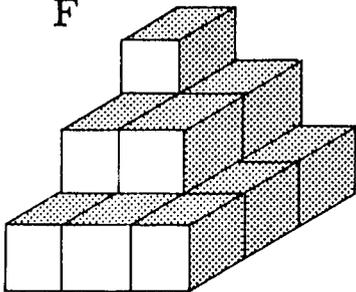
D



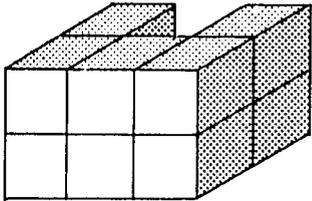
E



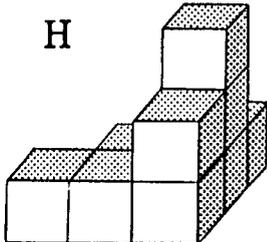
F



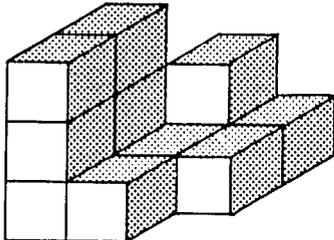
G

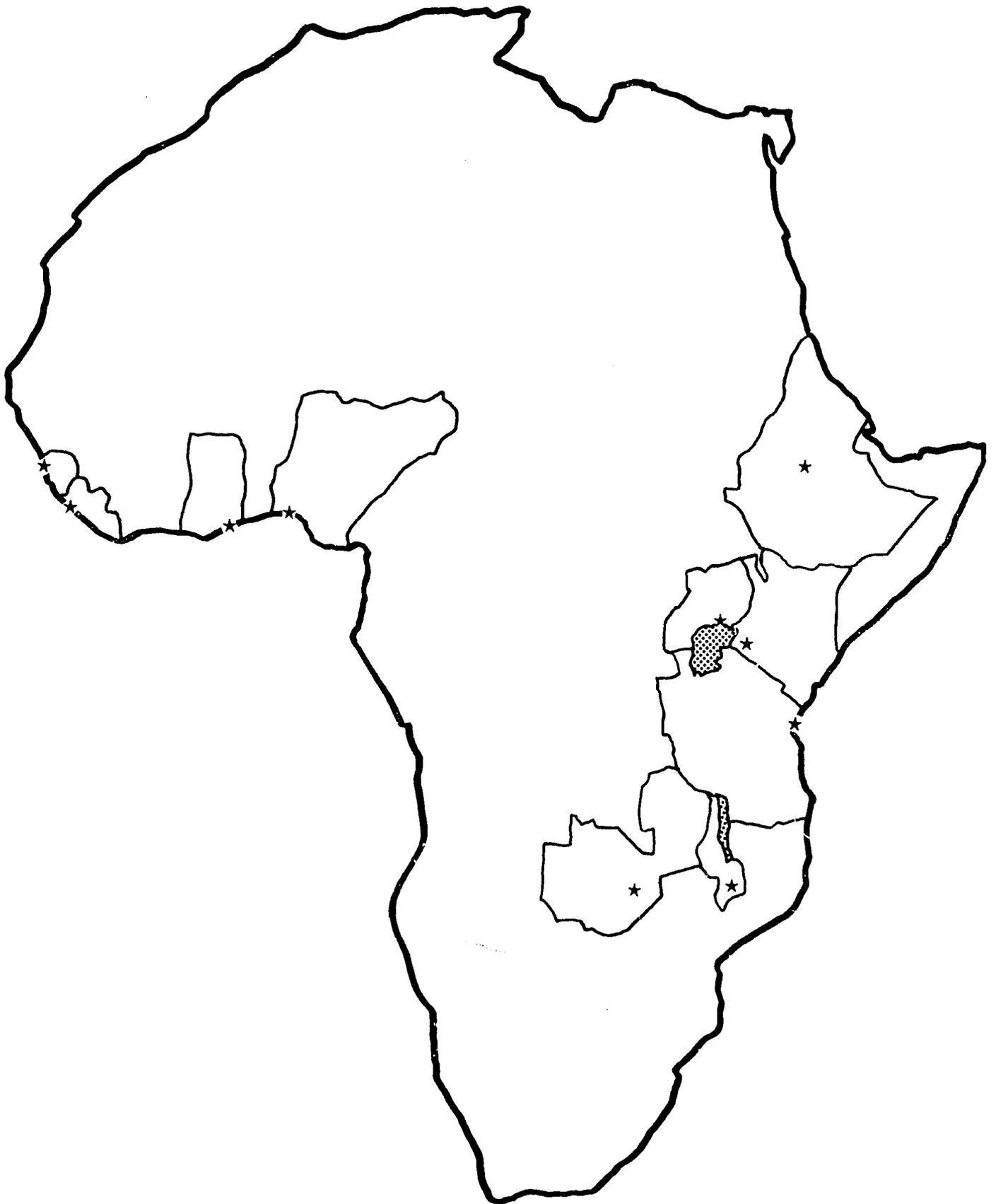


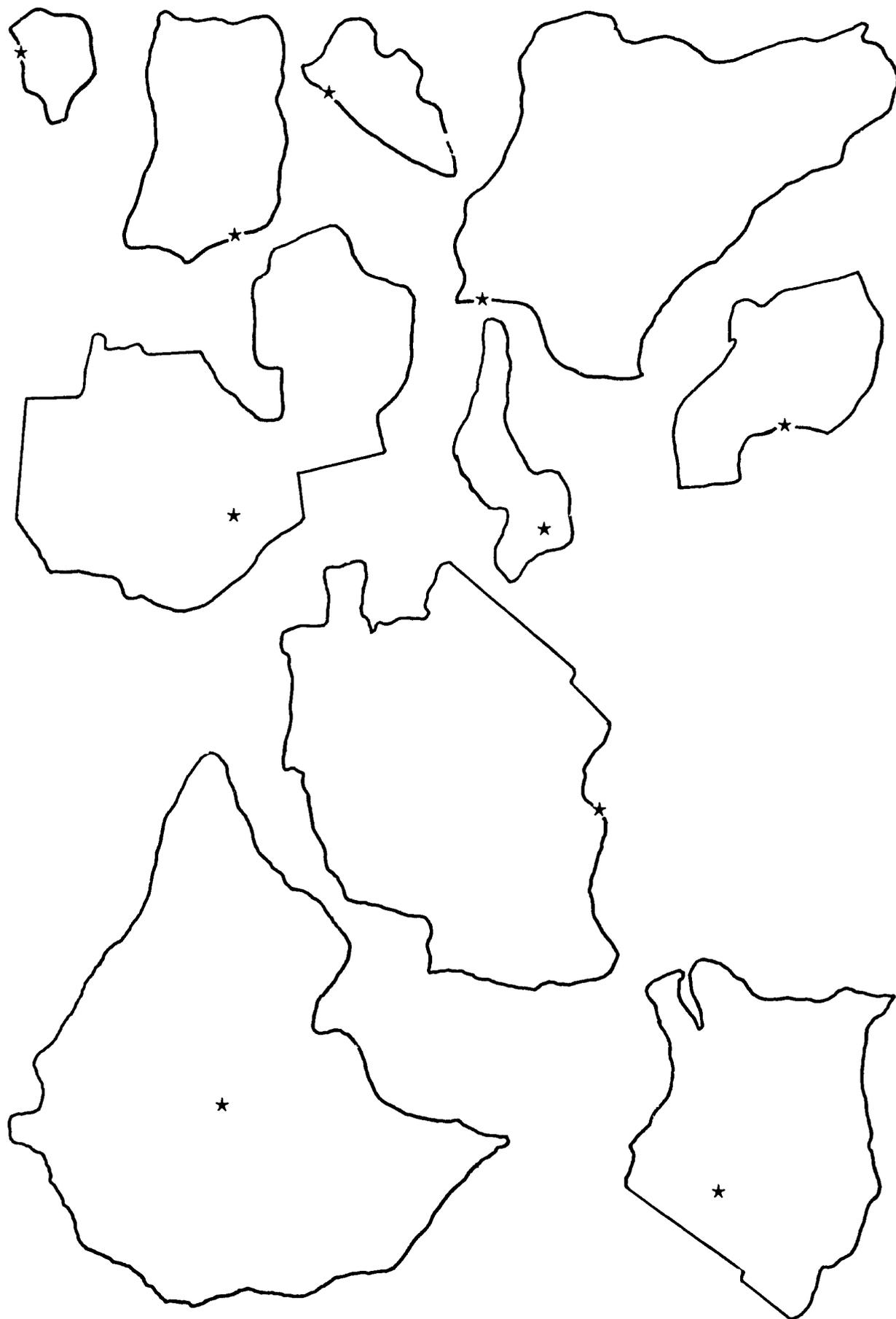
H



I







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