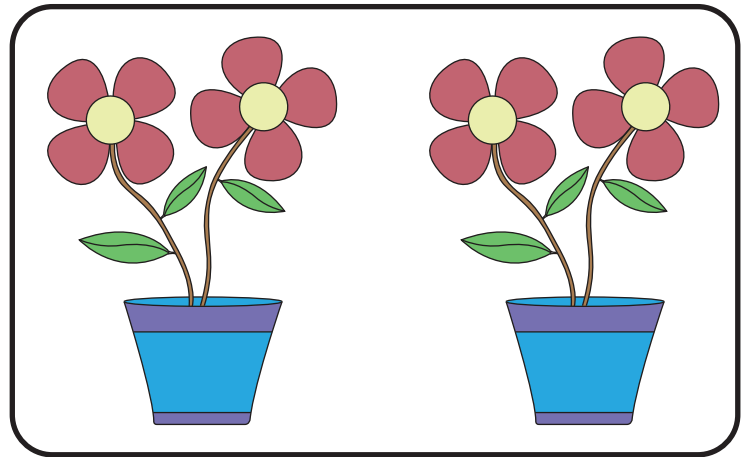
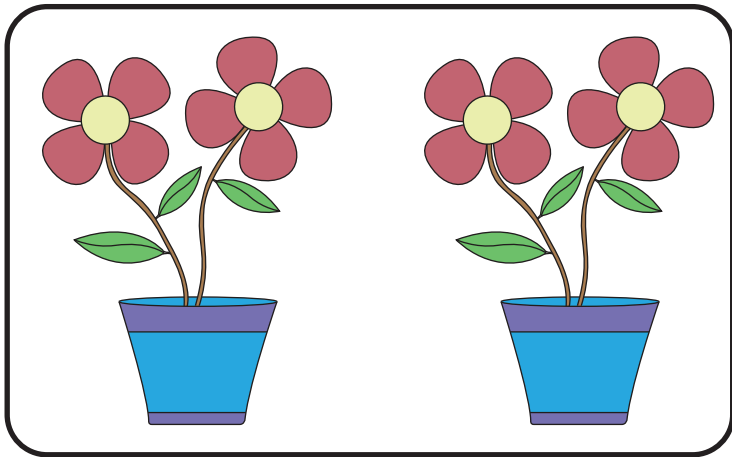
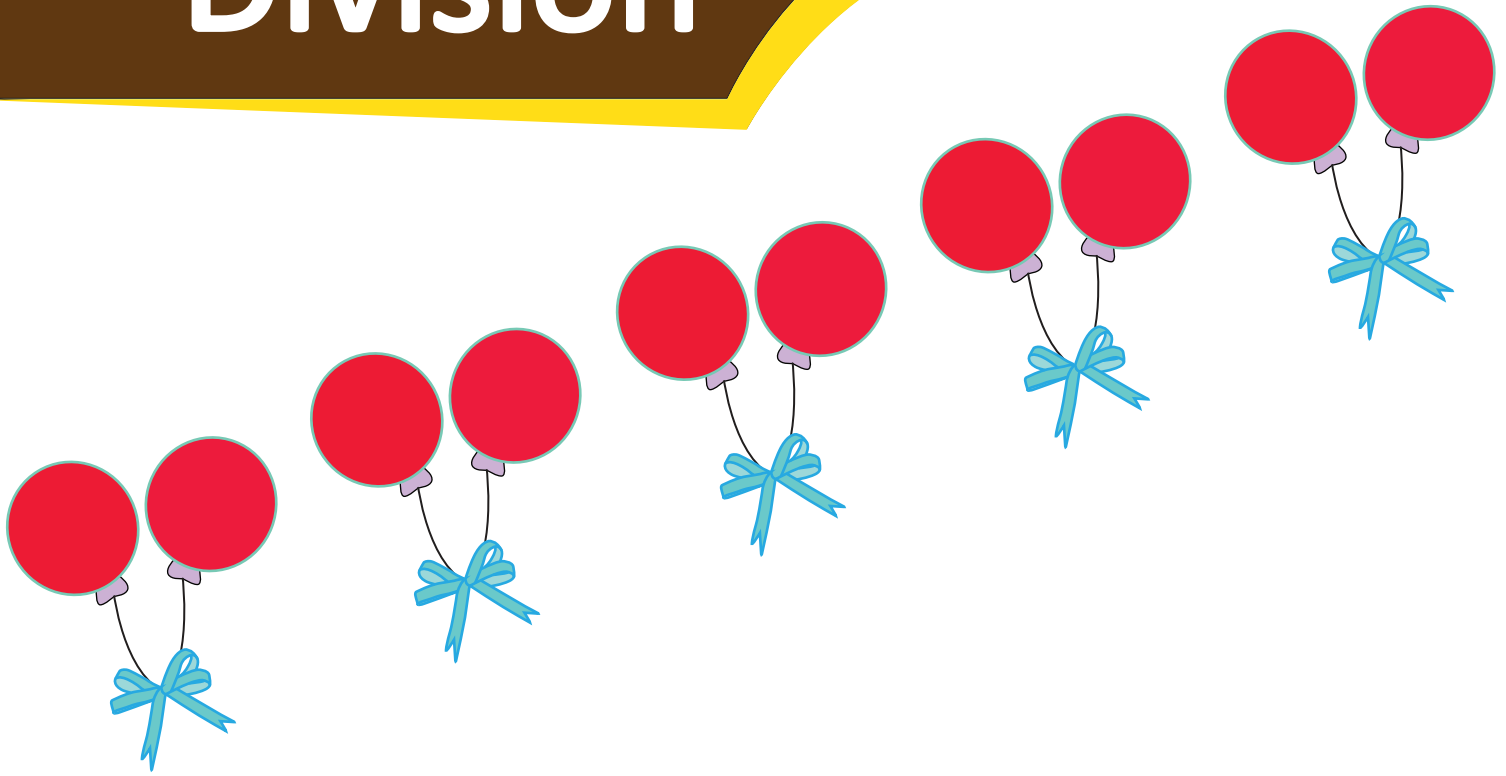
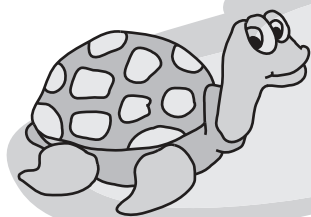


Multiplication and Division

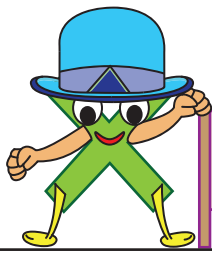
3RD
GRADE





Multiplication Chart (0 - 15)

x	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0				0						0						
1					4								12			
2		2							16						28	
3									24					39		
4			8								40					
5	0					25								65		
6									48							90
7						35							84			
8				24								88				
9						45								117		
10		10							80							
11														143		
12		12						84					144			
13							78								182	
14			28							126						
15	0							105								225



Multiplication Facts (0 - 12)

$$\begin{array}{r} 1) \quad 5 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 0 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 3) \quad 11 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 4) \quad 6 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5) \quad 12 \\ \times 4 \\ \hline \end{array}$$

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

$$\begin{array}{r} 7) \quad 2 \\ \times 1 \\ \hline \end{array}$$

$$\begin{array}{r} 8) \quad 7 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9) \quad 6 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 10) \quad 10 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 11) \quad 9 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 12) \quad 4 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 13) \quad 7 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 14) \quad 3 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 15) \quad 5 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 16) \quad 11 \\ \times 4 \\ \hline \end{array}$$

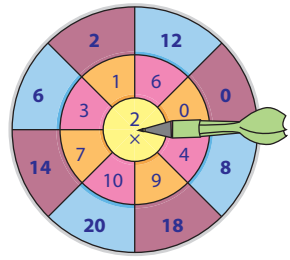
$$\begin{array}{r} 17) \quad 1 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 18) \quad 6 \\ \times 3 \\ \hline \end{array}$$

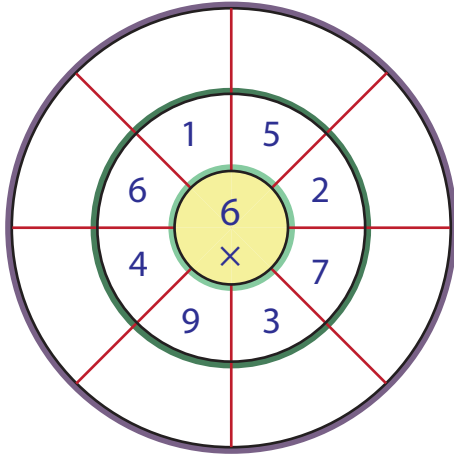
$$\begin{array}{r} 19) \quad 2 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 20) \quad 3 \\ \times 3 \\ \hline \end{array}$$

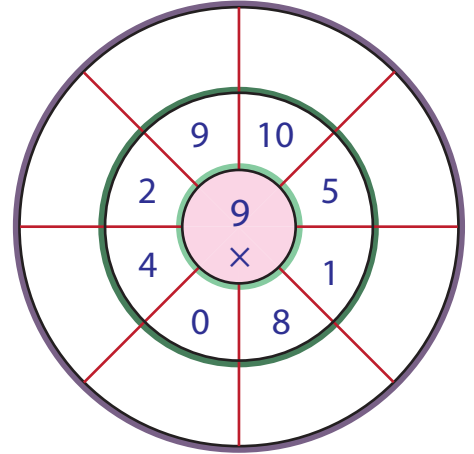
Multiplication Facts



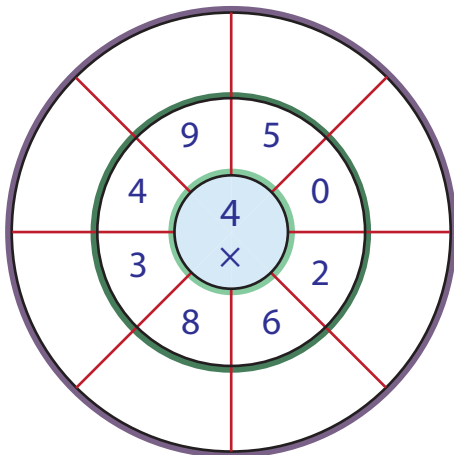
1)



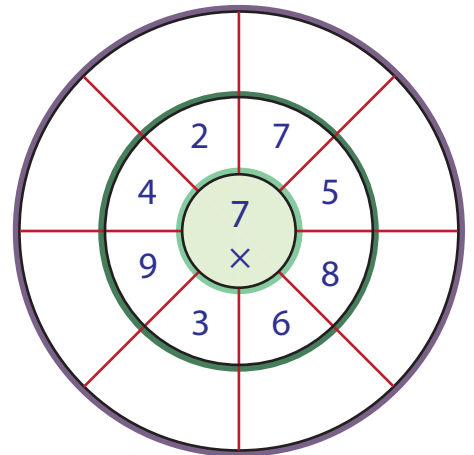
2)



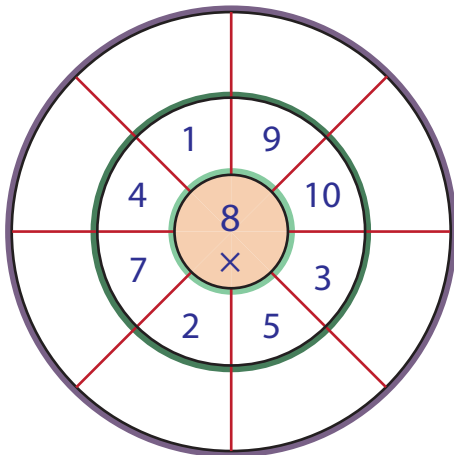
3)



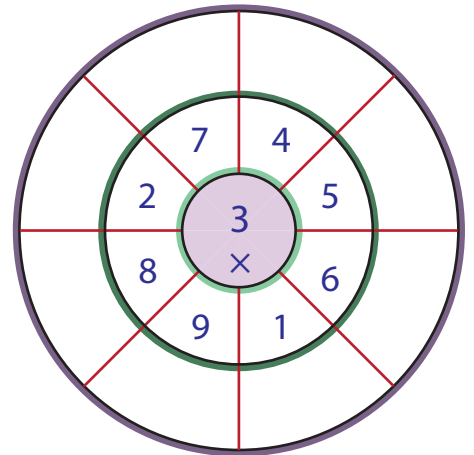
4)



5)



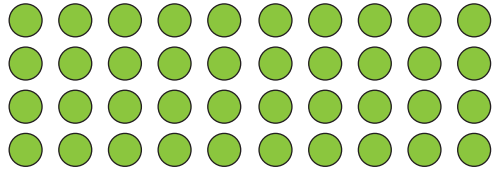
6)



Drawing Arrays

Example:

$$4 \times 10 = \underline{40}$$



Draw an array to find the answer to each multiplication sentence.

1) $3 \times 5 = \underline{\quad}$

2) $8 \times 4 = \underline{\quad}$

3) $10 \times 2 = \underline{\quad}$

4) $6 \times 7 = \underline{\quad}$

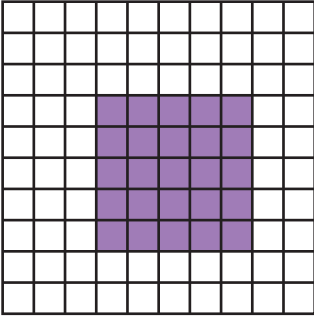
5) $5 \times 4 = \underline{\quad}$

6) $3 \times 11 = \underline{\quad}$

Multiplication Sentence - Area

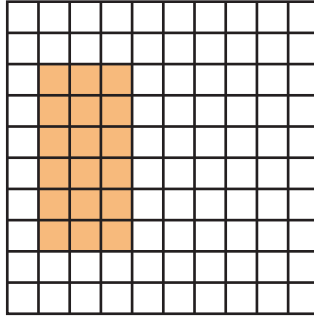
A) Write a multiplication sentence to each model.

1)



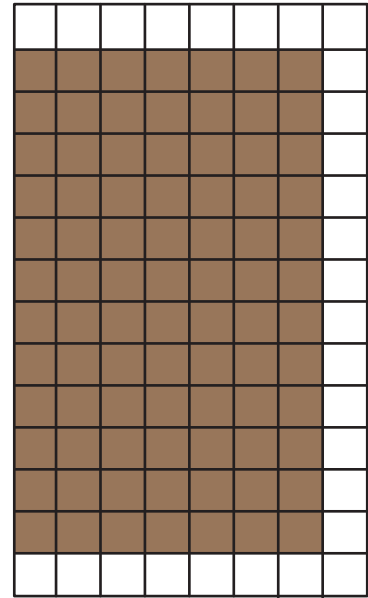
___ × ___ = ___

2)



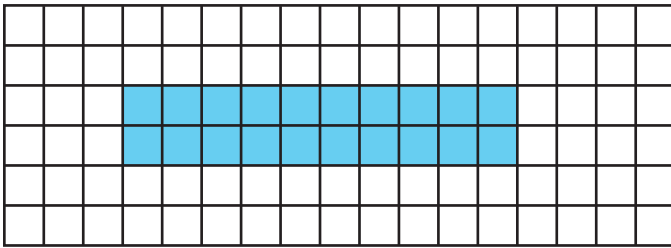
___ × ___ = ___

3)



___ × ___ = ___

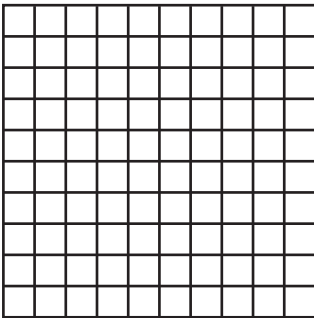
4)



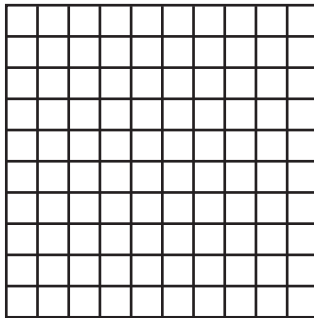
___ × ___ = ___

B) Draw an area model to find the answer to each multiplication sentence.

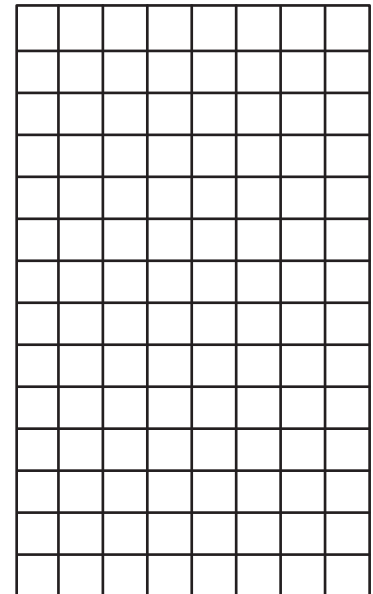
1) $7 \times 6 =$ _____



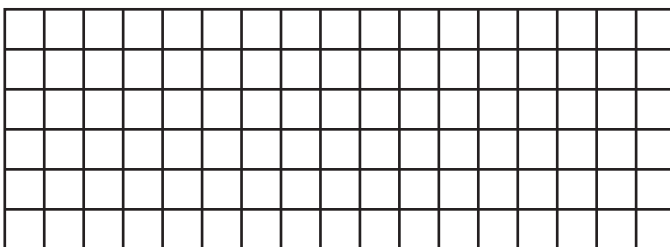
2) $4 \times 9 =$ _____



3) $11 \times 5 =$ _____

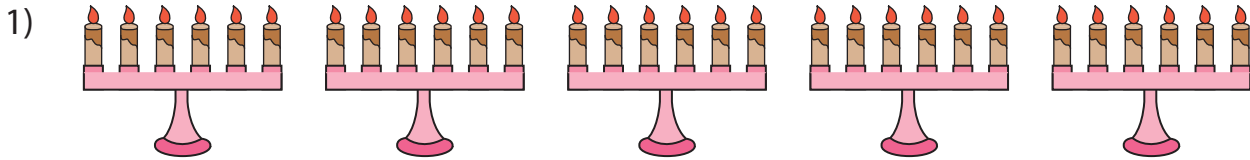


4) $3 \times 10 =$ _____

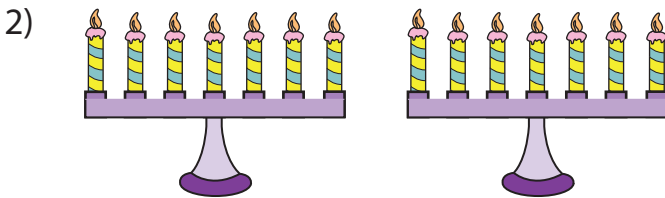


Equal Groups: Multiplication Sentence

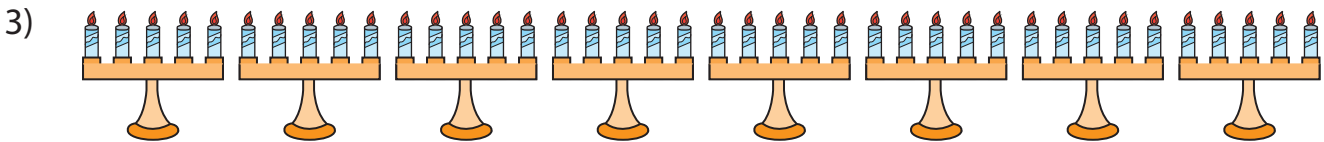
Complete the multiplication equation that describes each model.



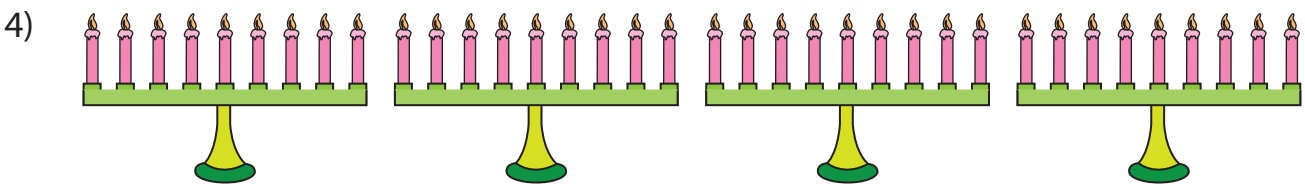
$$\square \times 6 = 30$$



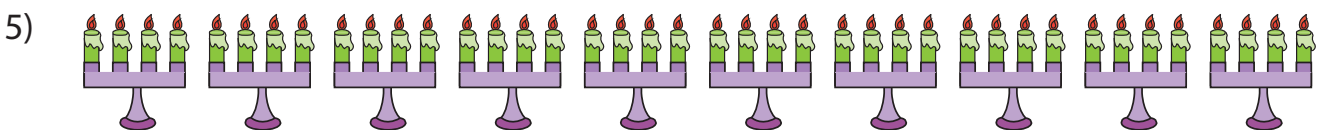
$$2 \times \square = 14$$



$$\square \times 5 = 40$$



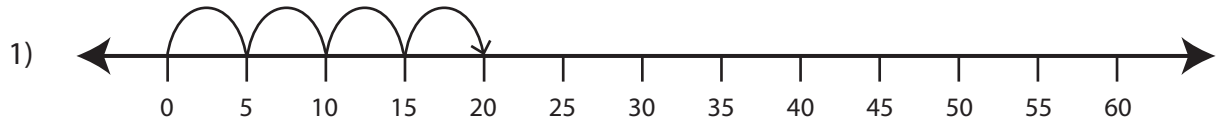
$$4 \times \square = 36$$



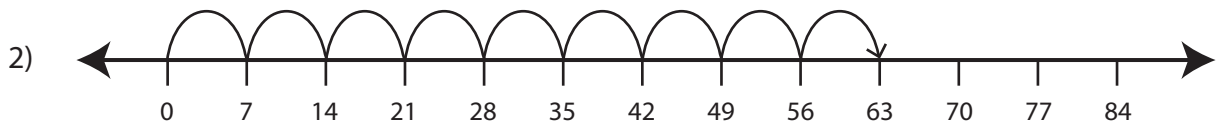
$$\square \times 4 = 40$$

Multiplication Sentence - Number Lines

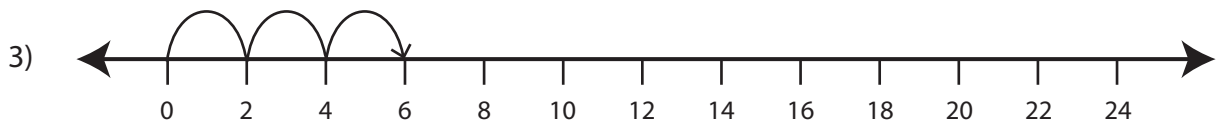
Complete the multiplication equation that describes each model.



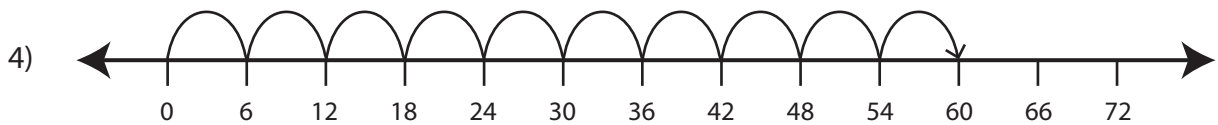
$$\square \times 5 = 20$$



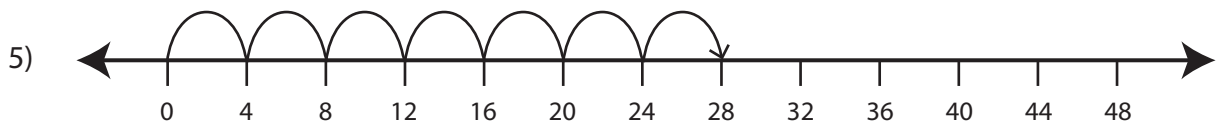
$$9 \times \square = 63$$



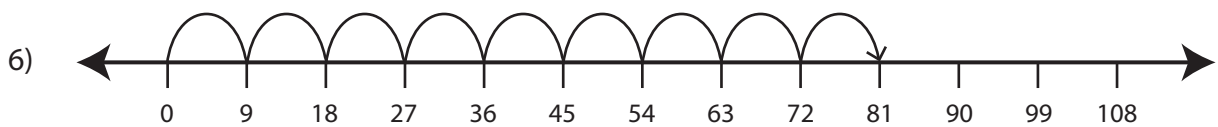
$$\square \times 2 = 6$$



$$10 \times \square = 60$$



$$\square \times 4 = 28$$

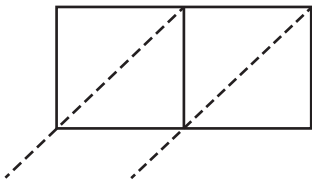


$$9 \times \square = 81$$

Lattice Multiplication

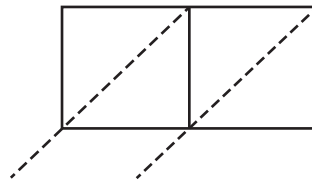
Use lattice multiplication method to find the product in each problem.

1) 32×6



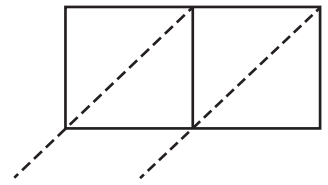
$32 \times 6 =$ _____

2) 45×2



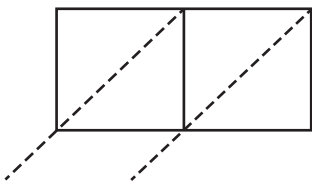
$45 \times 2 =$ _____

3) 18×7



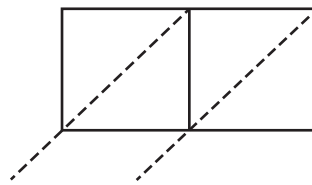
$18 \times 7 =$ _____

4) 67×3



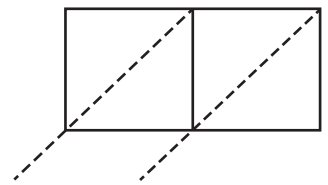
$67 \times 3 =$ _____

5) 53×8



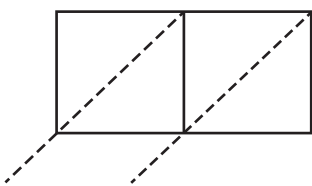
$53 \times 8 =$ _____

6) 92×4



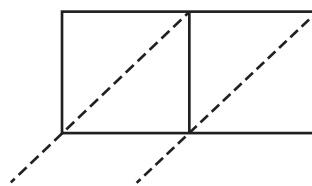
$92 \times 4 =$ _____

7) 21×5



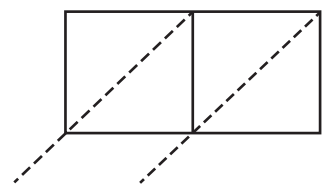
$21 \times 5 =$ _____

8) 86×1



$86 \times 1 =$ _____

9) 74×9



$74 \times 9 =$ _____

In-Out Boxes - Multiplication

1)

IN	OUT
1	
2	
7	
10	
12	
Rule: Multiply by 3	

2)

IN	OUT
0	
5	
6	
9	
11	
Rule: Multiply by 9	

3)

IN	OUT
4	
6	
7	
8	
10	
Rule: Multiply by 1	

4)

IN	OUT
2	
3	
5	
6	
9	
Rule: Multiply by 10	

5)

IN	3	4	7	10	12
OUT					
Rule: Multiply by 7					

6)

IN	1	3	4	8	11
OUT					
Rule: Multiply by 5					

7)

IN	0	2	3	5	6	9	10	12
OUT								
Rule: Multiply by 2								

Multiplication

1)
$$\begin{array}{r} 87 \\ \times 2 \\ \hline \end{array}$$

2)
$$\begin{array}{r} 56 \\ \times 3 \\ \hline \end{array}$$

3)
$$\begin{array}{r} 73 \\ \times 9 \\ \hline \end{array}$$

4)
$$\begin{array}{r} 76 \\ \times 5 \\ \hline \end{array}$$

5)
$$\begin{array}{r} 59 \\ \times 6 \\ \hline \end{array}$$

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

7)
$$\begin{array}{r} 92 \\ \times 4 \\ \hline \end{array}$$

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

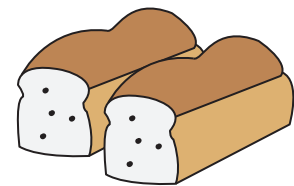
9)
$$\begin{array}{r} 83 \\ \times 7 \\ \hline \end{array}$$

10)
$$\begin{array}{r} 37 \\ \times 8 \\ \hline \end{array}$$

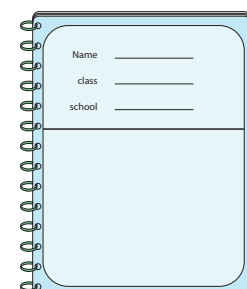
11)
$$\begin{array}{r} 92 \\ \times 9 \\ \hline \end{array}$$

12)
$$\begin{array}{r} 49 \\ \times 3 \\ \hline \end{array}$$

- 13) Allen sold 45 loaves of white bread. Each loaf costs \$3. How much money did he earn?



- 14) A spiral notebook has 70 pages. How many pages are in 5 spiral notebooks?



2-Digit by 1-Digit Multiplication

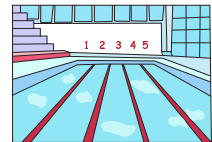
- 1) George visits a store to buy 2 flash drives. They are priced at \$28 each. How much does he need to spend on his purchase?



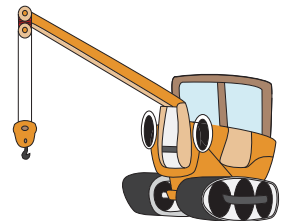
- 2) Jim goes to a movie with his parents and brother. Each movie ticket costs \$20. How much in all does Jim pay for the tickets?



- 3) During a practice session, Frank swims an average of 19 laps in an hour. If he were to attend 5 practice sessions, how many laps will he be able to cover on an average?

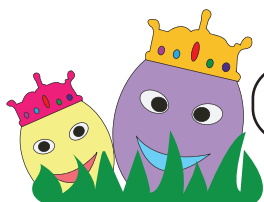


- 4) James, a crane operator works on 8 hour shifts everyday. If he worked 22 days in a month, how many hours of work did he put in altogether?



- 5) Joy made 3 trips to the candy store. For every trip she made, she bought 12 packs of orange candies. How many packs of candies did Joy buy in total?





Complete the Multiplication Sentence

Complete the multiplication sentence for each problem.

1) $\square \times 9 = 27$

2) $9 \times \square = 18$

3) $\square \times 5 = 25$

4) $7 \times \square = 35$

5) $3 \times \square = 9$

6) $\square \times 10 = 50$

7) $\square \times 9 = 36$

8) $3 \times \square = 12$

9) $8 \times \square = 56$

10) $4 \times \square = 8$

11) $4 \times \square = 40$

12) $6 \times \square = 42$

13) $\square \times 7 = 49$

14) $\square \times 5 = 45$

Multiplication Drill

100 problems

$5 \times 6 =$

$10 \times 7 =$

$9 \times 3 =$

$12 \times 8 =$

$3 \times 11 =$

$11 \times 8 =$

$4 \times 10 =$

$3 \times 1 =$

$1 \times 9 =$

$10 \times 4 =$

$8 \times 9 =$

$7 \times 11 =$

$6 \times 4 =$

$11 \times 7 =$

$5 \times 3 =$

$2 \times 12 =$

$1 \times 10 =$

$12 \times 11 =$

$10 \times 9 =$

$7 \times 2 =$

$11 \times 9 =$

$4 \times 8 =$

$3 \times 2 =$

$9 \times 11 =$

$1 \times 3 =$

$10 \times 12 =$

$8 \times 7 =$

$7 \times 5 =$

$2 \times 6 =$

$12 \times 4 =$

$5 \times 11 =$

$11 \times 1 =$

$4 \times 3 =$

$10 \times 2 =$

$9 \times 7 =$

$12 \times 6 =$

$3 \times 10 =$

$1 \times 7 =$

$2 \times 9 =$

$11 \times 6 =$

$8 \times 2 =$

$7 \times 4 =$

$6 \times 8 =$

$5 \times 5 =$

$4 \times 12 =$

$10 \times 11 =$

$3 \times 9 =$

$12 \times 6 =$

$2 \times 3 =$

$1 \times 2 =$

$12 \times 1 =$

$5 \times 9 =$

$6 \times 8 =$

$10 \times 5 =$

$12 \times 7 =$

$6 \times 3 =$

$2 \times 2 =$

$3 \times 4 =$

$1 \times 5 =$

$11 \times 3 =$

$7 \times 5 =$

$10 \times 6 =$

$12 \times 3 =$

$8 \times 4 =$

$9 \times 5 =$

$11 \times 4 =$

$7 \times 8 =$

$6 \times 7 =$

$5 \times 9 =$

$3 \times 8 =$

$3 \times 6 =$

$9 \times 2 =$

$4 \times 4 =$

$11 \times 10 =$

$10 \times 3 =$

$4 \times 9 =$

$3 \times 7 =$

$2 \times 5 =$

$1 \times 8 =$

$8 \times 6 =$

$12 \times 5 =$

$11 \times 2 =$

$10 \times 8 =$

$6 \times 9 =$

$7 \times 7 =$

$2 \times 8 =$

$3 \times 5 =$

$8 \times 3 =$

$5 \times 7 =$

$12 \times 4 =$

$9 \times 6 =$

$7 \times 1 =$

$11 \times 11 =$

$10 \times 1 =$

$4 \times 6 =$

$3 \times 9 =$

$1 \times 4 =$

$2 \times 6 =$

$8 \times 8 =$

$12 \times 9 =$

Multiplication Drill

1)		3	5	2)		4	0	3)		7	4	4)		9	6	5)		5	2
	×		7		×		6		×		2		×		9		×		3
6)		1	6	7)		8	9	8)		2	8	9)		3	7	10)		6	6
	×		8		×		4		×		1		×		5		×		7
11)		7	3	12)		4	4	13)		5	0	14)		8	1	15)		1	9
	×		6		×		2		×		9		×		8		×		6
16)		1	5	17)		3	2	18)		9	4	19)		2	7	20)		3	3
	×		5		×		4		×		7		×		9		×		5
21)		2	1	22)		6	8	23)		5	2	24)		1	6	25)		8	5
	×		8		×		2		×		3		×		6		×		1

Multiplication Drill

50 problems

$14 \times 9 =$

$2 \times 56 =$

$45 \times 9 =$

$1 \times 27 =$

$61 \times 5 =$

$5 \times 38 =$

$98 \times 4 =$

$8 \times 72 =$

$83 \times 2 =$

$7 \times 15 =$

$57 \times 7 =$

$6 \times 42 =$

$64 \times 7 =$

$3 \times 92 =$

$84 \times 2 =$

$4 \times 37 =$

$29 \times 8 =$

$6 \times 18 =$

$45 \times 4 =$

$3 \times 59 =$

$68 \times 1 =$

$9 \times 92 =$

$74 \times 5 =$

$6 \times 83 =$

$45 \times 1 =$

$2 \times 61 =$

$58 \times 7 =$

$4 \times 12 =$

$99 \times 5 =$

$8 \times 64 =$

$8 \times 90 =$

$6 \times 36 =$

$27 \times 3 =$

$7 \times 54 =$

$67 \times 9 =$

$42 \times 6 =$

$14 \times 5 =$

$2 \times 35 =$

$78 \times 8 =$

$4 \times 89 =$

$7 \times 94 =$

$3 \times 65 =$

$73 \times 1 =$

$9 \times 82 =$

$13 \times 6 =$

$26 \times 5 =$

$32 \times 2 =$

$9 \times 41 =$

$55 \times 1 =$

$2 \times 93 =$

Commutative Property of Multiplication

Identify the commutative property of multiplication from the choices below.

1) A. $6 \times 1 = 6$ B. $6 \times (2 \times 7) = (6 \times 2) \times 7$ C. $6 \times 2 = 2 \times 6$ D. $6 \times \frac{1}{6} = 1$ Correct Choice: <input type="checkbox"/>	2) A. $9 \times 3 = 3 \times 9$ B. $9 \times (3 + 7) = 9 \times 3 + 9 \times 7$ C. $9 \times (3 \times 7) = (9 \times 3) \times 7$ D. $9 \times 1 = 9$ Correct Choice: <input type="checkbox"/>
3) A. $5 \times 1 = 5$ B. $5 \times (11 + 4) = 5 \times 11 + 5 \times 4$ C. $5 \times 11 = 11 \times 5$ D. $(5 \times 11) \times 4 = 5 \times (11 \times 4)$ Correct Choice: <input type="checkbox"/>	4) A. $2 \times \frac{1}{2} = 1$ B. $2 \times (5 \times 9) = (2 \times 5) \times 9$ C. $2 \times (5 + 9) = 2 \times 5 + 2 \times 9$ D. $2 \times 5 = 5 \times 2$ Correct Choice: <input type="checkbox"/>
5) A. $11 \times 8 = 8 \times 11$ B. $(11 \times 8) \times 6 = 11 \times (8 \times 6)$ C. $11 \times 1 = 11$ D. $11 \times \frac{1}{11} = 1$ Correct Choice: <input type="checkbox"/>	6) A. $10 \times 1 = 10$ B. $10 \times 2 = 2 \times 10$ C. $10 \times \frac{1}{10} = 1$ D. $10 \times (2 + 4) = 10 \times 2 + 10 \times 4$ Correct Choice: <input type="checkbox"/>
7) A. $3 \times 1 = 3$ B. $3 \times (9 \times 12) = (3 \times 9) \times 12$ C. $3 \times (9 + 12) = 3 \times 9 + 3 \times 12$ D. $3 \times 9 = 9 \times 3$ Correct Choice: <input type="checkbox"/>	8) A. $(7 \times 10) \times 2 = 7 \times (10 \times 2)$ B. $7 \times 10 = 10 \times 7$ C. $\frac{7}{10} \times \frac{10}{7} = 1$ D. $7 \times (10 + 2) = 7 \times 10 + 7 \times 2$ Correct Choice: <input type="checkbox"/>
9) A. $12 \times 6 = 6 \times 12$ B. $12 \times 1 = 12$ C. $12 \times (6 + 8) = 12 \times 6 + 12 \times 8$ D. $(12 \times 6) \times 8 = 12 \times (6 \times 8)$ Correct Choice: <input type="checkbox"/>	10) A. $4 \times (9 + 5) = 4 \times 9 + 4 \times 5$ B. $4 \times (9 \times 5) = (4 \times 9) \times 5$ C. $4 \times 9 = 9 \times 4$ D. $4 \times 1 = 4$ Correct Choice: <input type="checkbox"/>

Associative Property of Multiplication

Identify the Associative property of multiplication from the choices below.

1) A. $12 \times 3 = 3 \times 12$ B. $(12 \times 3) \times 5 = 12 \times (3 \times 5)$ C. $12 \times 1 = 12$ D. $12 \times \frac{1}{12} = 1$ Correct Choice: <input type="checkbox"/>	2) A. $7 \times (11 \times 2) = (7 \times 11) \times 2$ B. $7 \times 11 = 11 \times 7$ C. $\frac{7}{11} \times \frac{11}{7} = 1$ D. $7 \times (11 + 2) = 7 \times 11 + 7 \times 2$ Correct Choice: <input type="checkbox"/>
3) A. $5 \times 1 = 5$ B. $5 \times (9 + 4) = 5 \times 9 + 5 \times 4$ C. $5 \times (9 \times 4) = (5 \times 9) \times 4$ D. $5 \times 9 = 9 \times 5$ Correct Choice: <input type="checkbox"/>	4) A. $2 \times (7 + 4) = 2 \times 7 + 2 \times 4$ B. $2 \times (7 \times 4) = (2 \times 7) \times 4$ C. $2 \times 7 = 7 \times 2$ D. $2 \times 1 = 2$ Correct Choice: <input type="checkbox"/>
5) A. $(6 \times 10) \times 8 = 6 \times (10 \times 8)$ B. $6 \times 10 = 10 \times 6$ C. $6 \times \frac{1}{6} = 1$ D. $6 \times (10 + 8) = 6 \times 10 + 6 \times 8$ Correct Choice: <input type="checkbox"/>	6) A. $3 \times 7 = 7 \times 3$ B. $3 \times 1 = 3$ C. $3 \times (7 + 5) = 3 \times 7 + 3 \times 5$ D. $3 \times (7 \times 5) = (3 \times 7) \times 5$ Correct Choice: <input type="checkbox"/>
7) A. $(4 \times 2) \times 7 = 4 \times (2 \times 7)$ B. $4 \times 2 = 2 \times 4$ C. $4 \times 1 = 4$ D. $4 \times \frac{1}{4} = 1$ Correct Choice: <input type="checkbox"/>	8) A. $9 \times 1 = 9$ B. $9 \times (5 \times 3) = (9 \times 5) \times 3$ C. $9 \times \frac{1}{9} = 1$ D. $9 \times (5 + 3) = 9 \times 5 + 9 \times 3$ Correct Choice: <input type="checkbox"/>
9) A. $8 \times 1 = 8$ B. $8 \times (2 + 4) = 8 \times 2 + 8 \times 4$ C. $(8 \times 2) \times 4 = 8 \times (2 \times 4)$ D. $8 \times 2 = 2 \times 8$ Correct Choice: <input type="checkbox"/>	10) A. $6 \times 1 = 6$ B. $6 \times (8 \times 3) = (6 \times 8) \times 3$ C. $6 \times 8 = 8 \times 6$ D. $6 \times \frac{1}{6} = 1$ Correct Choice: <input type="checkbox"/>

Commutative and Associative Property

Use commutative or associative property of multiplication to fill in the missing number.

1) $9 \times 2 = \underline{\quad} \times 9$	2) $10 \times (3 \times 5) = (10 \times 3) \times \underline{\quad}$
3) $\underline{\quad} \times (8 \times 4) = (10 \times 8) \times 4$	4) $5 \times \underline{\quad} = 6 \times 5$
5) $3 \times 7 = 7 \times \underline{\quad}$	6) $4 \times (6 \times 7) = (\underline{\quad} \times 6) \times 7$
7) $10 \times (\underline{\quad} \times 4) = (10 \times 6) \times 4$	8) $\underline{\quad} \times 7 = 7 \times 2$
9) $8 \times 4 = \underline{\quad} \times 8$	10) $\underline{\quad} \times (9 \times 11) = (6 \times 9) \times 11$
11) $5 \times (8 \times 10) = (\underline{\quad} \times 8) \times 10$	12) $13 \times \underline{\quad} = 2 \times 13$
13) $\underline{\quad} \times 6 = 6 \times 9$	14) $5 \times (8 \times \underline{\quad}) = (5 \times 8) \times 3$
15) $6 \times (5 \times 7) = (6 \times \underline{\quad}) \times 7$	16) $11 \times 9 = 9 \times \underline{\quad}$
17) $8 \times 3 = \underline{\quad} \times 8$	18) $4 \times (3 \times 8) = (4 \times 3) \times \underline{\quad}$
19) $7 \times (4 \times 6) = (7 \times \underline{\quad}) \times 6$	20) $7 \times \underline{\quad} = 5 \times 7$

Inverse and Identity Property of Multiplication

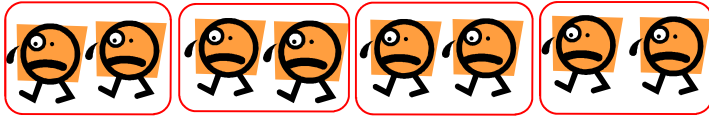
Use identity or inverse property of multiplication to fill in the missing number.

1) $\underline{\quad} \times 9 = 1$	2) $16 \times \underline{\quad} = 16$	3) $\underline{\quad} \times 2 = 2$
4) $\underline{\quad} \times 1 = 11$	5) $\underline{\quad} \times \frac{1}{5} = 1$	6) $7 \times \underline{\quad} = 1$
7) $\frac{1}{3} \times \underline{\quad} = 1$	8) $1 \times \underline{\quad} = 8$	9) $\underline{\quad} \times 1 = 19$
10) $\underline{\quad} \times 5 = 1$	11) $2 \times \underline{\quad} = 2$	12) $\underline{\quad} \times 4 = 4$
13) $\underline{\quad} \times 1 = 7$	14) $\underline{\quad} \times \frac{1}{13} = 1$	15) $15 \times \underline{\quad} = 1$
16) $\frac{1}{2} \times \underline{\quad} = 1$	17) $1 \times \underline{\quad} = 18$	18) $\underline{\quad} \times 10 = 10$
19) $14 \times \underline{\quad} = 14$	20) $\underline{\quad} \times 1 = 17$	21) $\frac{1}{6} \times \underline{\quad} = 1$
22) $\underline{\quad} \times 4 = 1$	23) $12 \times \underline{\quad} = 12$	24) $\underline{\quad} \times 6 = 6$
25) $\underline{\quad} \times 1 = 9$	26) $\underline{\quad} \times \frac{1}{11} = 1$	27) $4 \times \underline{\quad} = 1$
28) $\frac{1}{8} \times \underline{\quad} = 1$	29) $1 \times \underline{\quad} = 13$	30) $20 \times \underline{\quad} = 20$

Division Facts

Example:

Divide into groups of 2:



Total items

Items in each group

Number of groups

$$\boxed{8} \div \boxed{2} = \boxed{4}$$

1) Divide into groups of 2:



Total items

Items in each group

Number of groups

$$\boxed{} \div \boxed{} = \boxed{}$$

2) Divide into groups of 4:



Total items

Items in each group

Number of groups

$$\boxed{} \div \boxed{} = \boxed{}$$

3) Divide into groups of 3:



Total items

Items in each group

Number of groups

$$\boxed{} \div \boxed{} = \boxed{}$$

4) Divide into groups of 5:



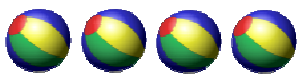
Total items

Items in each group

Number of groups

$$\boxed{} \div \boxed{} = \boxed{}$$

5) Divide into groups of 2:



Total items

Items in each group

Number of groups

$$\boxed{} \div \boxed{} = \boxed{}$$

6) Divide into groups of 3:



Total items

Items in each group

Number of groups

$$\boxed{} \div \boxed{} = \boxed{}$$

7) Divide into groups of 2:



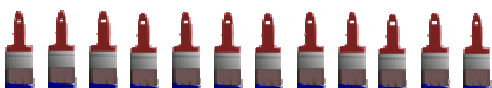
Total items

Items in each group

Number of groups

$$\boxed{} \div \boxed{} = \boxed{}$$

8) Divide into groups of 6:



Total items

Items in each group

Number of groups

$$\boxed{} \div \boxed{} = \boxed{}$$

Division Groups



1) Divide into groups of 5:



a) How many groups of 5 can you form?

b) How many items left over?

3) Divide into groups of 7:



a) How many groups of 7 can you form?

b) How many items left over?

5) Divide into groups of 2:



a) How many groups of 2 can you form?

b) How many items left over?

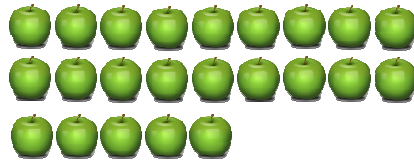
7) Divide into groups of 9:



a) How many groups of 9 can you form?

b) How many items left over?

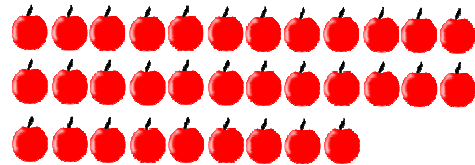
2) Divide into groups of 3:



a) How many groups of 3 can you form?

b) How many items left over?

4) Divide into groups of 4:



a) How many groups of 4 can you form?

b) How many items left over?

6) Divide into groups of 6:



a) How many groups of 6 can you form?

b) How many items left over?

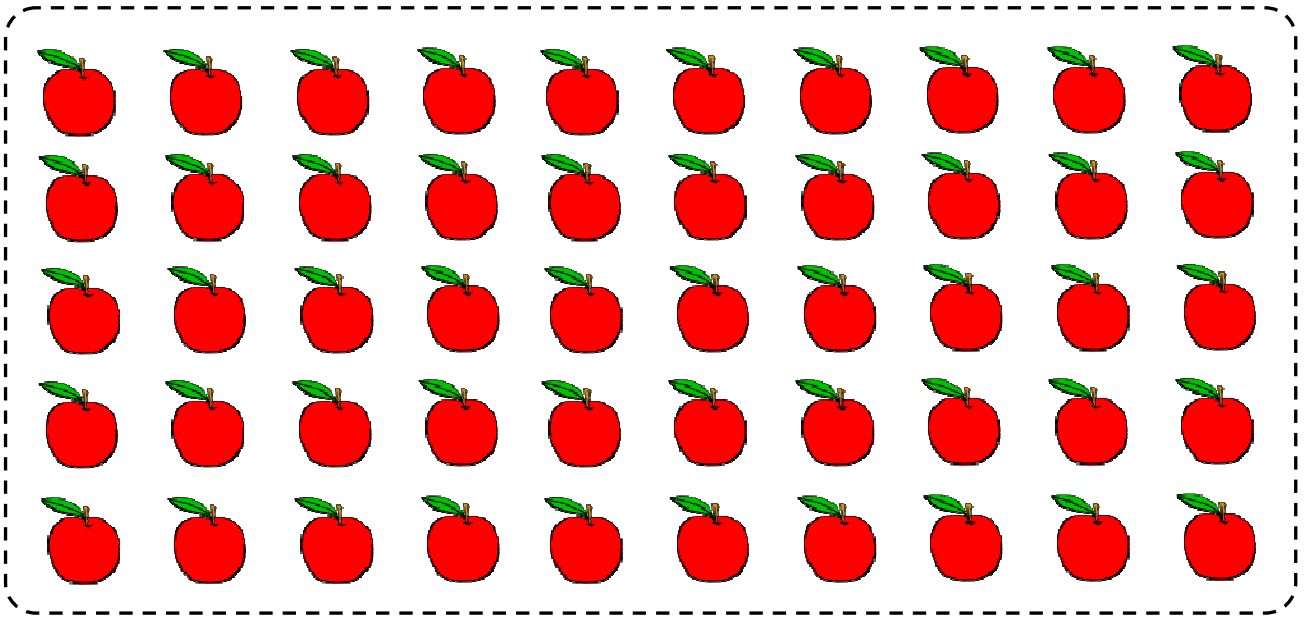
8) Divide into groups of 8:



a) How many groups of 8 can you form?

b) How many items left over?

Division Groups



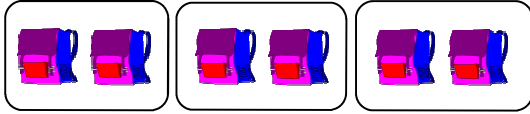
Total number of apples =

Q. No	Number of apples in each	Number of groups	Left over
1	6		
2	3		
3	9		
4	11		
5	7		
6	13		
7	4		
8	8		
9	14		
10	15		

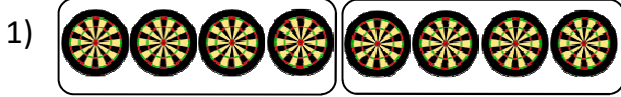
Division Facts

Example:

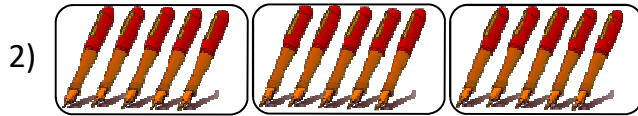
Write division sentence:



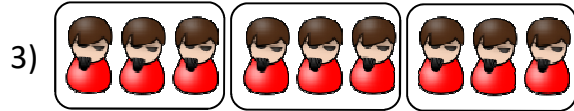
$$\boxed{6} \div \boxed{2} = \boxed{3}$$



$$\boxed{} \div \boxed{} = \boxed{}$$



$$\boxed{} \div \boxed{} = \boxed{}$$



$$\boxed{} \div \boxed{} = \boxed{}$$



$$\boxed{} \div \boxed{} = \boxed{}$$



$$\boxed{} \div \boxed{} = \boxed{}$$



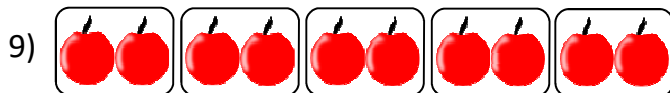
$$\boxed{} \div \boxed{} = \boxed{}$$



$$\boxed{} \div \boxed{} = \boxed{}$$



$$\boxed{} \div \boxed{} = \boxed{}$$



$$\boxed{} \div \boxed{} = \boxed{}$$



$$\boxed{} \div \boxed{} = \boxed{}$$

Division Facts – 1 to 10

Divide to find the quotient:

1) $21 \div 7 =$ <input type="text"/>	2) $80 \div 10 =$ <input type="text"/>	3) $25 \div 5 =$ <input type="text"/>
4) $8 \div 4 =$ <input type="text"/>	5) $27 \div 3 =$ <input type="text"/>	6) $36 \div 9 =$ <input type="text"/>
7) $56 \div 8 =$ <input type="text"/>	8) $12 \div 6 =$ <input type="text"/>	9) $18 \div 2 =$ <input type="text"/>
10) $50 \div 5 =$ <input type="text"/>	11) $72 \div 9 =$ <input type="text"/>	12) $28 \div 7 =$ <input type="text"/>
13) $24 \div 4 =$ <input type="text"/>	14) $42 \div 6 =$ <input type="text"/>	15) $40 \div 8 =$ <input type="text"/>
16) $12 \div 3 =$ <input type="text"/>	17) $18 \div 9 =$ <input type="text"/>	18) $45 \div 5 =$ <input type="text"/>
19) $14 \div 7 =$ <input type="text"/>	20) $8 \div 2 =$ <input type="text"/>	21) $12 \div 4 =$ <input type="text"/>
22) $35 \div 5 =$ <input type="text"/>	23) $24 \div 8 =$ <input type="text"/>	24) $63 \div 9 =$ <input type="text"/>
25) $24 \div 3 =$ <input type="text"/>	26) $6 \div 6 =$ <input type="text"/>	27) $42 \div 7 =$ <input type="text"/>
28) $27 \div 9 =$ <input type="text"/>	29) $20 \div 4 =$ <input type="text"/>	30) $64 \div 8 =$ <input type="text"/>

In-Out Boxes - Division

1)

IN	OUT
30	
40	
60	
100	
120	
Rule: Divide by 10	

2)

IN	OUT
0	
4	
10	
16	
18	
Rule: Divide by 2	

3)

IN	OUT
9	
27	
54	
63	
99	
Rule: Divide by 9	

4)

IN	OUT
14	
28	
49	
63	
84	
Rule: Divide by 7	

5)

IN	16	24	32	40	44
OUT					
Rule: Divide by 4					

6)

IN	24	40	64	72	88
OUT					
Rule: Divide by 8					

7)

IN	3	6	9	15	21	27	30	36
OUT								
Rule: Divide by 3								

Division Tables

1				2				3				4							
1	÷	1	=	1	2	÷	1	=	2	3	÷	1	=	3	4	÷	1	=	4
2	÷	2	=	1	4	÷	2	=	2	6	÷	2	=	3	8	÷	2	=	4
3	÷	3	=	1	6	÷	3	=	2	9	÷	3	=	3	12	÷	3	=	4
4	÷	4	=	1	8	÷	4	=	2	12	÷	4	=	3	16	÷	4	=	4
5	÷	5	=	1	10	÷	5	=	2	15	÷	5	=	3	20	÷	5	=	4
6	÷	6	=	1	12	÷	6	=	2	18	÷	6	=	3	24	÷	6	=	4
7	÷	7	=	1	14	÷	7	=	2	21	÷	7	=	3	28	÷	7	=	4
8	÷	8	=	1	16	÷	8	=	2	24	÷	8	=	3	32	÷	8	=	4
9	÷	9	=	1	18	÷	9	=	2	27	÷	9	=	3	36	÷	9	=	4
10	÷	10	=	1	20	÷	10	=	2	30	÷	10	=	3	40	÷	10	=	4
11	÷	11	=	1	22	÷	11	=	2	33	÷	11	=	3	44	÷	11	=	4
12	÷	12	=	1	24	÷	12	=	2	36	÷	12	=	3	48	÷	12	=	4
5				6				7				8							
5	÷	1	=	5	6	÷	1	=	6	7	÷	1	=	7	8	÷	1	=	8
10	÷	2	=	5	12	÷	2	=	6	14	÷	2	=	7	16	÷	2	=	8
15	÷	3	=	5	18	÷	3	=	6	21	÷	3	=	7	24	÷	3	=	8
20	÷	4	=	5	24	÷	4	=	6	28	÷	4	=	7	32	÷	4	=	8
25	÷	5	=	5	30	÷	5	=	6	35	÷	5	=	7	40	÷	5	=	8
30	÷	6	=	5	36	÷	6	=	6	42	÷	6	=	7	48	÷	6	=	8
35	÷	7	=	5	42	÷	7	=	6	49	÷	7	=	7	56	÷	7	=	8
40	÷	8	=	5	48	÷	8	=	6	56	÷	8	=	7	64	÷	8	=	8
45	÷	9	=	5	54	÷	9	=	6	63	÷	9	=	7	72	÷	9	=	8
50	÷	10	=	5	60	÷	10	=	6	70	÷	10	=	7	80	÷	10	=	8
55	÷	11	=	5	66	÷	11	=	6	77	÷	11	=	7	88	÷	11	=	8
60	÷	12	=	5	72	÷	12	=	6	84	÷	12	=	7	96	÷	12	=	8
9				10				11				12							
9	÷	1	=	9	10	÷	1	=	10	11	÷	1	=	11	12	÷	1	=	12
18	÷	2	=	9	20	÷	2	=	10	22	÷	2	=	11	24	÷	2	=	12
27	÷	3	=	9	30	÷	3	=	10	33	÷	3	=	11	36	÷	3	=	12
36	÷	4	=	9	40	÷	4	=	10	44	÷	4	=	11	48	÷	4	=	12
45	÷	5	=	9	50	÷	5	=	10	55	÷	5	=	11	60	÷	5	=	12
54	÷	6	=	9	60	÷	6	=	10	66	÷	6	=	11	72	÷	6	=	12
63	÷	7	=	9	70	÷	7	=	10	77	÷	7	=	11	84	÷	7	=	12
72	÷	8	=	9	80	÷	8	=	10	88	÷	8	=	11	96	÷	8	=	12
81	÷	9	=	9	90	÷	9	=	10	99	÷	9	=	11	108	÷	9	=	12
90	÷	10	=	9	100	÷	10	=	10	110	÷	10	=	11	120	÷	10	=	12
99	÷	11	=	9	110	÷	11	=	10	121	÷	11	=	11	132	÷	11	=	12
108	÷	12	=	9	120	÷	12	=	10	132	÷	12	=	11	144	÷	12	=	12

Division

$1) 7 \overline{) 52}$

$2) 9 \overline{) 81}$

$3) 8 \overline{) 64}$

$4) 5 \overline{) 13}$

$5) 4 \overline{) 96}$

$6) 6 \overline{) 28}$

$7) 3 \overline{) 49}$

$8) 4 \overline{) 78}$

$9) 9 \overline{) 98}$

$10) 2 \overline{) 60}$

$11) 8 \overline{) 73}$

$12) 3 \overline{) 56}$

$13) 5 \overline{) 15}$

$14) 6 \overline{) 32}$

$15) 7 \overline{) 45}$

$16) 4 \overline{) 20}$

$17) 3 \overline{) 86}$

$18) 9 \overline{) 42}$

$19) 8 \overline{) 53}$

$20) 2 \overline{) 16}$