

Multiplication of 5





5 10 15 20 25 30 35 40 45

$$1 \times 5 = 5$$

one five is five

$$5 \times 1 = 5$$

$$2 \times 5 = 10$$

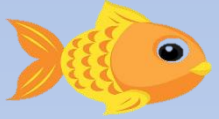
two fives are ten

$$5 \times 2 = 10$$

⋮

⋮

⋮



$$1 \times 5 = 5$$

1 five

$$5 \times 1 = 5$$

$$2 \times 5 = 10$$

2 fives

$$5 \times 2 = 10$$

$$3 \times 5 = 15$$

3 fives

$$5 \times 3 = 15$$

$$4 \times 5 = 20$$

4 fives

$$5 \times 4 = 20$$

$$5 \times 5 = 25$$

5 fives

$$5 \times 5 = 25$$

$$6 \times 5 = 30$$

6 fives

$$5 \times 6 = 30$$

$$7 \times 5 = 35$$

7 fives

$$5 \times 7 = 35$$

$$8 \times 5 = 40$$

8 fives

$$5 \times 8 = 40$$

$$9 \times 5 = 45$$

9 fives

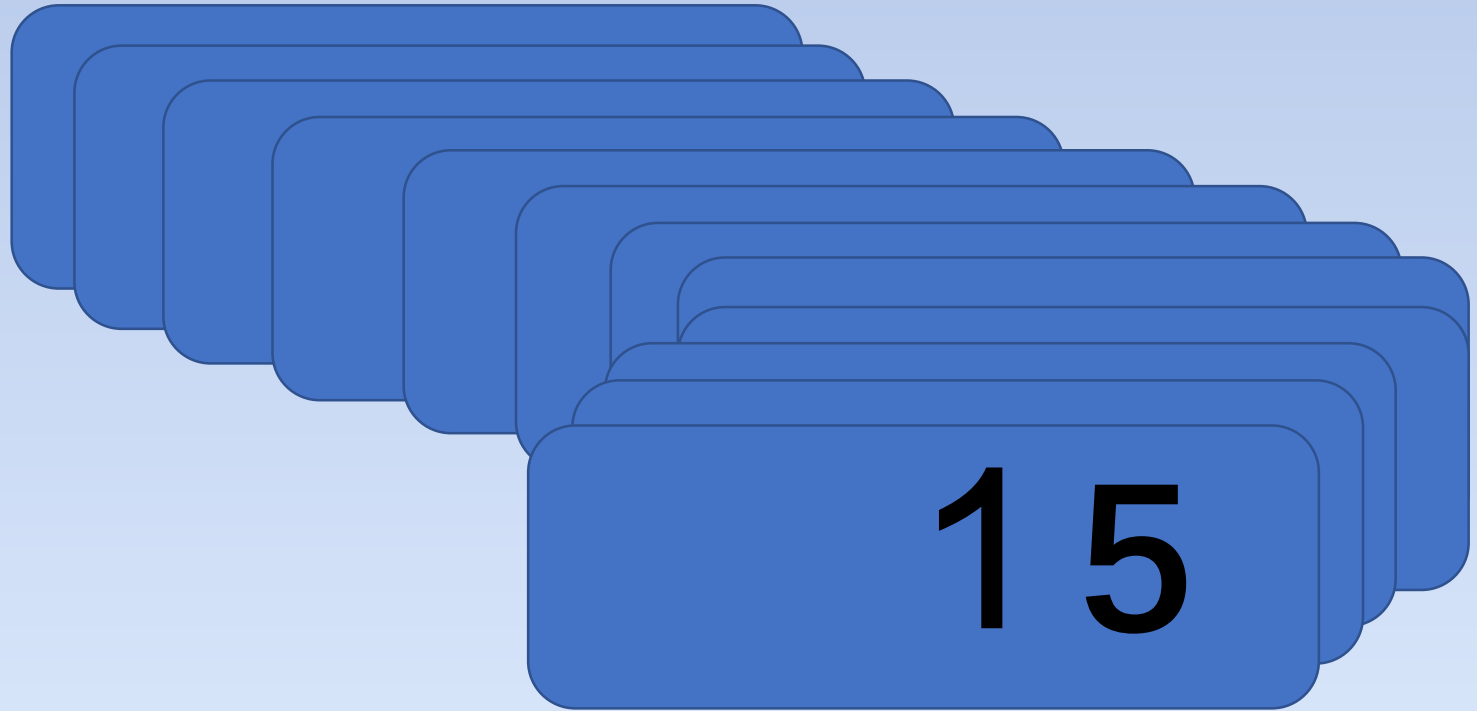
$$5 \times 9 = 45$$

Memorize:

$$1 \times 5 = 5$$

$$5 \times 2 = 10$$

$$5 \times 5 = 25$$



Derive:

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$$\begin{array}{l}
 4 \times 5 = 20 \\
 5 \times 5 = 25 \\
 6 \times 5 = 30
 \end{array}$$

Diagram illustrating the derivation of multiplication facts for 5:

- A curved arrow points from $4 \times 5 = 20$ to $5 \times 5 = 25$, labeled $- 5$.
- A curved arrow points from $5 \times 5 = 25$ to $6 \times 5 = 30$, labeled $+ 5$.

$$\begin{array}{l}
 9 \times 5 = 45 \\
 5 \times 10 = 50
 \end{array}$$

Diagram illustrating the derivation of multiplication facts for 5:

- A curved arrow points from $9 \times 5 = 45$ to $5 \times 10 = 50$, labeled $- 5$.

$$\begin{array}{l}
 10 \times 3 = 30 \\
 5 \times 3 = 15
 \end{array}$$

Diagram illustrating the derivation of multiplication facts for 5:

- A vertical arrow points from $10 \times 3 = 30$ to $5 \times 3 = 15$, labeled **half** on both sides.
- A curved arrow points from $10 \times 3 = 30$ to $5 \times 3 = 15$, labeled **half** on the right.

Exercise 1:

Write the number sentences and calculate.



$$4 \times 5 = 20$$

Conclusion:

The products:

0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50



The number at the ones place of each number is 5 and 0, which alternate with each other.



The difference between the adjacent numbers is always 5.

Challenge:

What number does each shape stand for?

(1) If $\triangle \times \triangle = 25$, and $\triangle \times \star = 50$,
 then $\triangle = (\text{5})$, and $\star = (\star) \cdot 10$