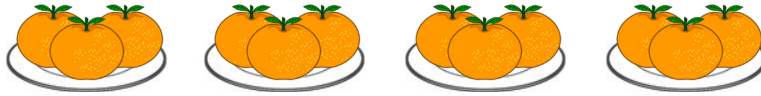


# 10-1

## Multiplication-I

### Meaning of Multiplication (1)

**Example** Look at the following picture and answer the following questions.

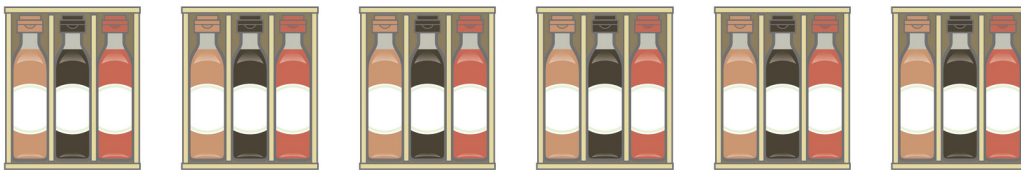


- 1 How many oranges are there on the plates?  oranges
- 2 How many oranges are there on one plate?  oranges
- 3 How many plates are there?  plates
- 4 There are  oranges on one plate and there are  plates. There are  oranges altogether.

In the above situation, we can make the following math sentences:

$$3 \times 4 = 12$$

Look at the following pictures and answer the questions.



- 1 How many bottles are there in the boxes?  bottles
- 2 How many bottles are there in one box?  bottles
- 3 How many boxes are there?  boxes
- 4 There are  bottles in one box and there are  boxes. There are  bottles altogether.

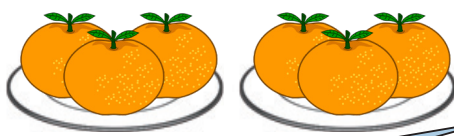
# 10-2

## Multiplication-I

### Meaning of Multiplication (2)

#### Instruction

There are three oranges on a plate. There are two plates. There are 6 oranges altogether. You can write this using the following math sentence.



$$3 \times 2 = 6$$

Number of objects in each group

Number of groups

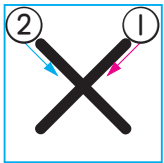
Total number of objects

How to read: Three multiplied by two equals six.

This is a very important concept.



1 Write the multiplication symbol.



#### Example

Write a multiplication math sentence for calculating the number of wheels.



Math sentence  $\boxed{2} \times \boxed{3} = \boxed{6}$

There are two wheels on a bicycle. There are three bicycles.



2 Write multiplication math sentences for the following problems.

1



Math sentence

$$\square \times \square = \square$$

2



Math sentence

$$\square \times \square = \square$$

# 10-3

## Multiplication-I

### Multiplication Facts of 5 (1)

#### Example





There are 5 onions on one plate. There are 2 plates. How many onions are there altogether? Write a math sentence and find the answer.



Math sentence  $5 \times 2 = 10$

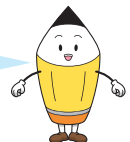
Five sweets are included in one box.

Write multiplication math sentences and find the answers.

- |   |   |         |                                    |
|---|---|---------|------------------------------------|
| 1 |   | 1 box   | $5 \times \square = \square$       |
| 2 |  | 2 boxes | $\square \times \square = \square$ |
| 3 |  | 3 boxes | $\square \times \square = \square$ |
| 4 |  | 4 boxes | $\square \times \square = \square$ |
| 5 | There are 5 sweets in one box.<br>There are 5 boxes.                                |         | $\square \times \square = \square$ |
| 6 | There are 5 sweets in one box.<br>There are 6 boxes.                                |         | $\square \times \square = \square$ |
| 7 | There are 5 sweets in one box.<br>There are 7 boxes.                                |         | $\square \times \square = \square$ |
| 8 | There are 5 sweets in one box.<br>There are 8 boxes.                                |         | $\square \times \square = \square$ |
| 9 | There are 5 sweets in one box.<br>There are 9 boxes.                                |         | $\square \times \square = \square$ |

×	1	2	3	4	5	6	7	8	9
5	5	10	15	20	25	30	35	40	45

This table shows the multiplication facts of 5.



# 10-4

## Multiplication-I

### Multiplication Facts of 5 (2)

**Example** There are 5 notebooks in one set. There are 3 sets. How many notebooks are there altogether?

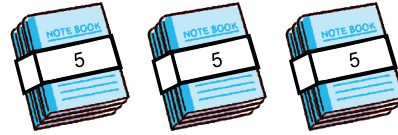
Math Sentence

$$5 \times 3 = 15$$

Answer

15

notebooks



Read the following questions. Write the math sentences and find the answers.

- 1 There are 5 biscuits on one plate. There are 5 plates. How many biscuits are there altogether?

Math Sentence

Answer

biscuits



- 2 There are 5 pieces of cake in each box. There are 6 boxes. How many pieces of cake are there altogether?

Math Sentence

Answer

pieces of cake



- 3 Five people are in each car. There are 4 cars. How many people are there altogether?

Math Sentence

Answer

people

- 4 There are 9 children. My mother will give 5 pieces of candy to each child. How many pieces of candy does she need?

Math Sentence

Answer

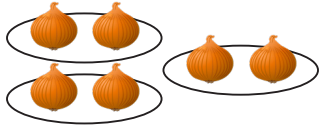
pieces of candy

# 10-5

## Multiplication-I


### Multiplication Facts of 2 (1)

**Example** There are 2 onions on one plate. There are 3 plates. How many onions are there altogether? Write a math sentence and find the answer.



Math sentence  $\boxed{2} \times \boxed{3} = \boxed{6}$

A bicycle has 2 wheels. How many wheels are there?  
Write multiplication math sentences and find the answers.

1  1 bicycle  $2 \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$

2  2 bicycles  $\boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$

3  3 bicycles  $\boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$

4  4 bicycles  $\boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$

5 There are 5 bicycles.  
How many wheels are there altogether?  $\boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$

6 There are 6 bicycles.  
How many wheels are there altogether?  $\boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$

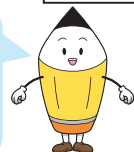
7 There are 7 bicycles.  
How many wheels are there altogether?  $\boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$

8 There are 8 bicycles.  
How many wheels are there altogether?  $\boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$

9 There are 9 bicycles.  
How many wheels are there altogether?  $\boxed{\phantom{00}} \times \boxed{\phantom{00}} = \boxed{\phantom{00}}$

×	1	2	3	4	5	6	7	8	9
2	2	4	6	8	10	12	14	16	18

Can you say the multiplication facts of 2 from  $2 \times 9, 2 \times 8 \dots$ ?

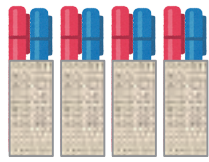


# 10-6

## Multiplication-I

### Multiplication Facts of 2 (2)

**Example** There are 2 pens in one set. There are 4 sets. How many pens are there altogether?



Math Sentence

$$2 \times 4 = 8$$

Answer

8

pens

Read the following questions. Write the math sentences and find the answers.

1 There are 2 donuts on one plate. There are 7 plates. How many donuts are there altogether?

Math Sentence

Answer

donuts

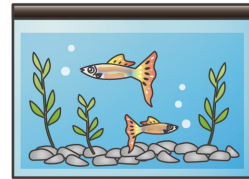


2 There are 2 fish in each tank. There are 5 tanks. How many fish are there altogether?

Math Sentence

Answer

fish



3 There are 2 computers on each desk. There are 9 desks. How many computers are there altogether?

Math Sentence

Answer

computers

4 There are 3 boats. Two people are in each boat. How many people are there in the boats altogether?

Math Sentence

Answer

people

# 10-7

## Multiplication-I

### Multiplication Facts of 5 and 2

1 The following tables show the multiplication facts of 5 and 2. Write the numbers in the .

×	1	2	3	4	5	6	7	8	9
5		10			25				
2			6				14		

**Example** Calculate the following multiplications.

1  $5 \times 7 =$

2  $2 \times 8 =$

2 Calculate the following multiplications.

You can do 1, 3, 5... Hide the answers and practice them again and again.

1  $5 \times 3 =$

2  $2 \times 4 =$

3  $5 \times 7 =$

4  $2 \times 1 =$

5  $5 \times 5 =$

6  $2 \times 5 =$

7  $5 \times 2 =$

8  $2 \times 7 =$

9  $5 \times 1 =$

10  $2 \times 2 =$

11  $5 \times 6 =$

12  $2 \times 6 =$

13  $5 \times 8 =$

14  $2 \times 3 =$

15  $5 \times 4 =$

16  $2 \times 9 =$

17  $5 \times 9 =$

18  $2 \times 8 =$

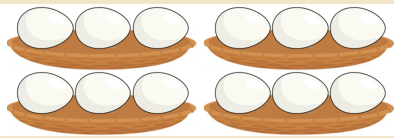


# 10-8

## Multiplication-I

### Multiplication Facts of 3 (1)

**Example** There are 3 eggs in one basket. There are 4 baskets. How many eggs are there altogether? Write a math sentence and find the answer.




Math sentence  $3 \times 4 = 12$

There are 3 sweets in one box. How many sweets are there? Write multiplication math sentences and find the answers.

1  1 box  $3 \times \square = \square$

2  2 boxes  $\square \times \square = \square$

3  3 boxes  $\square \times \square = \square$

4  4 boxes  $\square \times \square = \square$

5 There are 5 boxes. How many sweets are there altogether?  $\square \times \square = \square$

6 There are 6 boxes. How many sweets are there altogether?  $\square \times \square = \square$

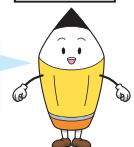
7 There are 7 boxes. How many sweets are there altogether?  $\square \times \square = \square$

8 There are 8 boxes. How many sweets are there altogether?  $\square \times \square = \square$

9 There are 9 boxes. How many sweets are there altogether?  $\square \times \square = \square$

×	1	2	3	4	5	6	7	8	9
3	3	6	9	12	15	18	21	24	27

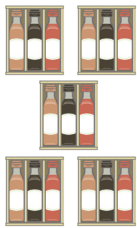
Let's have a problem with friends, like "what is the answer to  $3 \times 5$ ?"





## Multiplication Facts of 3 (2)

**Example** There are 3 bottles in a box. There are 5 boxes. How many bottles are there altogether?



Math  
Sentence

$$3 \times 5 = 15$$

Answer

15

bottles

Read the following questions. Write the math sentences and find the answers.

- 1 There are 3 apples in a basket. There are 6 baskets. How many apples are there altogether?



Math  
Sentence

Answer

apples

- 2 There are 3 pencils in each case. There are 7 cases. How many pencils are there altogether?



Math  
Sentence

Answer

pencils

- 3 There are 3 bulbs planted in each pot. There are 9 pots. How many bulbs are planted altogether?

Math  
Sentence

Answer

bulbs

- 4 There are 8 children. I will give 3 pieces of candy to each child. How many pieces of candy do I need?

Math  
Sentence

Answer

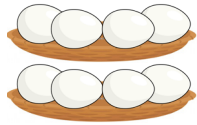
pieces of  
candy

# 10-10

## Multiplication-1

### Multiplication Facts of 4 (1)

**Example** There are 4 eggs in a basket. There are 3 baskets. How many eggs are there altogether? Write a math sentence and find the answer.



Math sentence  $4 \times 3 = 12$

A truck has 4 tires. How many tires are there?

Write multiplication math sentences and find the answers.

1  1 truck  $4 \times \square = \square$

2  2 trucks  $\square \times \square = \square$

3  3 trucks  $\square \times \square = \square$

4  4 trucks  $\square \times \square = \square$

5 There are 5 trucks. How many tires are there altogether?  $\square \times \square = \square$

6 There are 6 trucks. How many tires are there altogether?  $\square \times \square = \square$

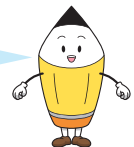
7 There are 7 trucks. How many tires are there altogether?  $\square \times \square = \square$

8 There are 8 trucks. How many tires are there altogether?  $\square \times \square = \square$

9 There are 9 trucks. How many tires are there altogether?  $\square \times \square = \square$

×	1	2	3	4	5	6	7	8	9
4	4	8	12	16	20	24	28	32	36

In the group, let's have a problem. Who can give the correct answer fast?



**Example** There are 4 rolls of toilet paper in one set. There are 5 sets. How many rolls of toilet paper are there altogether?



Math  
Sentence

$$4 \times 5 = 20$$

Answer

20

rolls of  
toilet  
paper

Read the following questions. Write the math sentences and find the answers.

- 1 There are 4 chocolates in a box. There are 6 boxes. How many chocolates are there altogether?

Math  
Sentence

Answer

chocolates



- 2 There are 4 eggs in each package. There are 4 packages. How many eggs are there altogether?

Math  
Sentence

Answer

eggs



- 3 There are 4 students in each group. There are 9 groups. How many students are there altogether?

Math  
Sentence

Answer

students

- 4 I bought 8 packages of batteries. There are 4 batteries in each package. How many batteries are there altogether?

Math  
Sentence

Answer

batteries

# 10-12

## Multiplication-I

### Multiplication Facts of 2 and 3

1 The following table shows the multiplication facts of 2 and 3. Write the numbers in the .

×	1	2	3	4	5	6	7	8	9
2					10				
3			9				21		

**Example** Calculate the following multiplications.

1  $2 \times 7 =$

2  $3 \times 8 =$

2 Calculate the following multiplications.

You can do 1, 3, 5...  
Let's practice them until  
you can say them smoothly.

1  $2 \times 3 =$

2  $3 \times 4 =$

3  $2 \times 7 =$

4  $3 \times 1 =$

5  $2 \times 5 =$

6  $3 \times 5 =$

7  $2 \times 2 =$

8  $3 \times 7 =$

9  $2 \times 1 =$

10  $3 \times 2 =$

11  $2 \times 6 =$

12  $3 \times 6 =$

13  $2 \times 8 =$

14  $3 \times 3 =$

15  $2 \times 4 =$

16  $3 \times 9 =$

17  $2 \times 9 =$

18  $3 \times 8 =$



# 10-13

## Multiplication-I

### Multiplication Facts of 2, 3 and 5

**1** The following table shows the multiplication facts of 2, 3 and 5. Write the numbers in the .

×	1	2	3	4	5	6	7	8	9
2									
3									
5									

**2** What can we find from the above table showing the multiplication facts of 2, 3 and 5.

You can find a very interesting fact!



**3** Calculate the following multiplications.

- |  |  |  |
|--|--|--|
| <b>1</b> $2 \times 1 =$ <input style="width: 50px;" type="text"/>  | <b>2</b> $5 \times 5 =$ <input style="width: 50px;" type="text"/>  | <b>3</b> $3 \times 1 =$ <input style="width: 50px;" type="text"/>  |
| <b>4</b> $3 \times 2 =$ <input style="width: 50px;" type="text"/>  | <b>5</b> $2 \times 2 =$ <input style="width: 50px;" type="text"/>  | <b>6</b> $5 \times 3 =$ <input style="width: 50px;" type="text"/>  |
| <b>7</b> $5 \times 4 =$ <input style="width: 50px;" type="text"/>  | <b>8</b> $3 \times 3 =$ <input style="width: 50px;" type="text"/>  | <b>9</b> $2 \times 3 =$ <input style="width: 50px;" type="text"/>  |
| <b>10</b> $5 \times 2 =$ <input style="width: 50px;" type="text"/> | <b>11</b> $2 \times 4 =$ <input style="width: 50px;" type="text"/> | <b>12</b> $3 \times 4 =$ <input style="width: 50px;" type="text"/> |
| <b>13</b> $2 \times 5 =$ <input style="width: 50px;" type="text"/> | <b>14</b> $3 \times 5 =$ <input style="width: 50px;" type="text"/> | <b>15</b> $5 \times 1 =$ <input style="width: 50px;" type="text"/> |

# 10-14

## Multiplication-I

### Multiplication Facts of 2 and 4

1 The following table shows the multiplication facts of 2 and 4. Write the numbers in the .

×	1	2	3	4	5	6	7	8	9
2									
4									

2 What can we find from the above table showing the multiplication facts of 2 and 4.

You can find a very interesting fact!



3 Calculate the following multiplications.

1  $2 \times 3 =$

2  $4 \times 2 =$

3  $4 \times 1 =$

4  $2 \times 4 =$

5  $2 \times 5 =$

6  $4 \times 3 =$

7  $4 \times 4 =$

8  $2 \times 1 =$

9  $2 \times 2 =$

10  $4 \times 6 =$

11  $4 \times 5 =$

12  $2 \times 6 =$

# 10-15

## Multiplication-I

### Multiplication Facts of 3 and 4

**1** The following table shows the multiplication facts of 3 and 4. Write the numbers in the .

×	1	2	3	4	5	6	7	8	9
3								24	
4			12			24			

**Example** Calculate the following multiplications.

**1**  $3 \times 5 =$

**2**  $4 \times 2 =$

**2** Calculate the following multiplications.

You can do **1**, **3**, **5**...  
Let's repeat them so that you can master them completely.

**1**  $3 \times 5 =$

**2**  $4 \times 2 =$

**3**  $3 \times 8 =$

**4**  $4 \times 9 =$

**5**  $3 \times 3 =$

**6**  $4 \times 4 =$

**7**  $3 \times 2 =$

**8**  $4 \times 7 =$

**9**  $3 \times 6 =$

**10**  $4 \times 5 =$

**11**  $3 \times 1 =$

**12**  $4 \times 6 =$

**13**  $3 \times 7 =$

**14**  $4 \times 8 =$

**15**  $3 \times 9 =$

**16**  $4 \times 1 =$

**17**  $3 \times 4 =$

**18**  $4 \times 3 =$



1 The following is a multiplication table. Write the numbers in the blanks.

×	1	2	3	4	5	6	7	8	9
2			6						
3					15				
4								32	
5						30			

2 Read the following questions. Write the math sentences and find the answers.

1 There are 2 peanuts in each bag. There are 8 bags. How many peanuts are there altogether?



Math Sentence

Answer

peanuts

2 There are 3 bananas on each plate. There are 7 plates. How many bananas are there altogether?



Math Sentence

Answer

bananas

3 A car has 4 tires. There are 6 cars. How many tires are there altogether?



Math Sentence

Answer

tires

4 There are 4 children. My father will give 5 pencils to each child. How many pencils does he need?



Math Sentence

Answer

pencils