

Division as Grouping

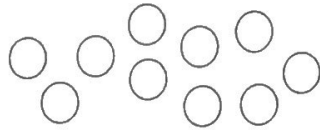


Quick Review

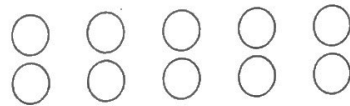
Division can be used to find how many equal groups there are when you know the size of the groups.

How many equal groups of 2 are there in 10?

- Start with 10 counters.



- Divide the 10 counters into groups of 2. Count the number of groups.



- Write the **division sentence**.

$$\begin{array}{ccccccc}
 10 & \div & 2 & = & 5 & & \\
 \uparrow & & \uparrow & & \uparrow & & \\
 \text{Number of} & & \text{Number in} & & \text{Number} & & \\
 \text{counters} & & \text{each group} & & \text{of groups} & &
 \end{array}$$

We say: 10 divided by 2 equals 5.

Try These

- Use counters. Find the number of groups.
Write a division sentence.

a) Divide 12 counters into groups of 3. _____

b) Divide 8 counters into groups of 1. _____

c) Divide 10 counters into groups of 5. _____

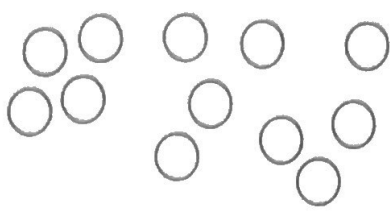
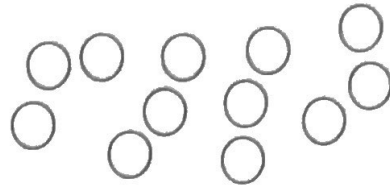
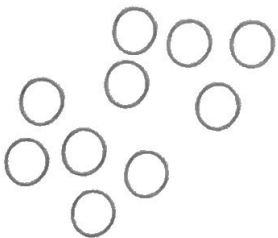
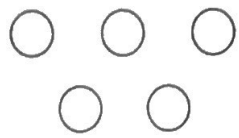
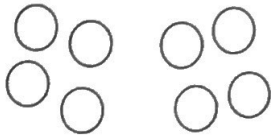
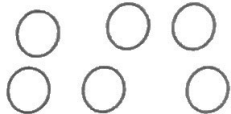
- Use counters. Make equal groups to divide.

a) $15 \div 5 =$ _____ b) $12 \div 4 =$ _____ c) $8 \div 2 =$ _____

d) $2 \div 1 =$ _____ e) $6 \div 2 =$ _____ f) $4 \div 4 =$ _____

Practice

1. Find the number of groups. Then write a division sentence.

<p>a) Make groups of 4.</p> 	<p>b) Make groups of 3.</p> 	<p>c) Make groups of 5.</p> 
<p>d) Make groups of 1.</p> 	<p>e) Make groups of 4.</p> 	<p>f) Make groups of 2.</p> 

2. Write a division sentence to solve each problem.

a) Ira has 12 plums. He gives 4 plums to each of his friends.

How many people get plums? _____

b) Suri has 15 photos. She puts 5 photos on each page.

How many pages does Suri use? _____

c) Sahib baked 10 tarts. He put 2 tarts into each bag.

How many bags did Sahib use? _____

Stretch Your Thinking

The answer is $20 \div 4 = 5$.

What might the problem be?

Division as Sharing

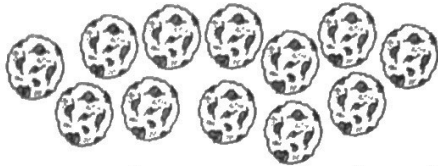


Quick Review

Division can be used to find how many are in each group when you know the number of groups.

12 cookies are shared equally among 3 friends.
How many cookies does each person get?

- Start with 12 cookies.



- Divide the 12 cookies into 3 groups.
Count the number of cookies in each group.



- Write the division sentence.

$$\begin{array}{ccccccc}
 12 & \div & 3 & = & 4 & & \\
 \uparrow & & \uparrow & & \uparrow & & \\
 \text{Number of} & & \text{Number of} & & \text{Number of} & & \\
 \text{cookies} & & \text{groups} & & \text{cookies in} & & \\
 & & & & \text{each group} & &
 \end{array}$$

We say: 12 divided by 3 equals 4.

Try These

- Use counters. Find the number in each group.
Write a division sentence.
 - Divide 20 counters into 4 groups. _____
 - Divide 16 counters into 4 groups. _____
 - Divide 3 counters into 3 groups. _____
 - Divide 12 counters into 4 groups. _____

Practice

1. Find the number of things in each group.

- a) $8 \div 4 =$ _____ b) $20 \div 5 =$ _____ c) $2 \div 2 =$ _____
d) $10 \div 2 =$ _____ e) $8 \div 2 =$ _____ f) $3 \div 1 =$ _____
g) $10 \div 5 =$ _____ h) $4 \div 4 =$ _____ i) $15 \div 3 =$ _____

2. Write a division sentence to solve each problem.

a) There are 20 people on 4 equal teams. How many people are on each team? _____

b) There are 16 muffins in 4 equal-sized tins. How many muffins are in each tin? _____

c) There are 25 chairs in 5 equal rows. How many chairs are in each row?

d) There are 4 buttons in 2 equal rows. How many buttons are in each row?

3. Write an equal sharing problem for $6 \div 2 = 3$.
Show how to solve the problem using a picture.

Stretch Your Thinking

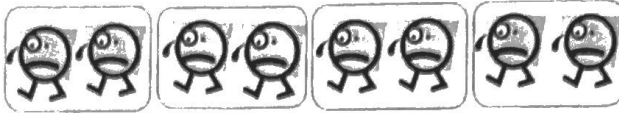
There are 12 members in the Boy Scout troop.
They will march in the parade in equal rows.
How many Boy Scouts could be in each row?

Division Facts

Sheet 1

Example:

Divide into groups of 2:



Total items		Items in each group		Number of groups
<input style="width: 30px; height: 20px;" type="text" value="8"/>	÷	<input style="width: 30px; height: 20px;" type="text" value="2"/>	=	<input style="width: 30px; height: 20px;" type="text" value="4"/>

1) Divide into groups of 2:



Total items		Items in each group		Number of groups
<input style="width: 30px; height: 20px;" type="text"/>	÷	<input style="width: 30px; height: 20px;" type="text"/>	=	<input style="width: 30px; height: 20px;" type="text"/>

2) Divide into groups of 4:



Total items		Items in each group		Number of groups
<input style="width: 30px; height: 20px;" type="text"/>	÷	<input style="width: 30px; height: 20px;" type="text"/>	=	<input style="width: 30px; height: 20px;" type="text"/>

3) Divide into groups of 3:



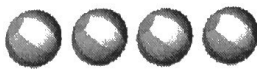
Total items		Items in each group		Number of groups
<input style="width: 30px; height: 20px;" type="text"/>	÷	<input style="width: 30px; height: 20px;" type="text"/>	=	<input style="width: 30px; height: 20px;" type="text"/>

4) Divide into groups of 5:



Total items		Items in each group		Number of groups
<input style="width: 30px; height: 20px;" type="text"/>	÷	<input style="width: 30px; height: 20px;" type="text"/>	=	<input style="width: 30px; height: 20px;" type="text"/>

5) Divide into groups of 2:



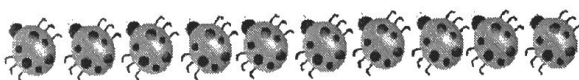
Total items		Items in each group		Number of groups
<input style="width: 30px; height: 20px;" type="text"/>	÷	<input style="width: 30px; height: 20px;" type="text"/>	=	<input style="width: 30px; height: 20px;" type="text"/>

6) Divide into groups of 3:



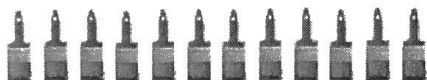
Total items		Items in each group		Number of groups
<input style="width: 30px; height: 20px;" type="text"/>	÷	<input style="width: 30px; height: 20px;" type="text"/>	=	<input style="width: 30px; height: 20px;" type="text"/>

7) Divide into groups of 2:



Total items		Items in each group		Number of groups
<input style="width: 30px; height: 20px;" type="text"/>	÷	<input style="width: 30px; height: 20px;" type="text"/>	=	<input style="width: 30px; height: 20px;" type="text"/>

8) Divide into groups of 6:



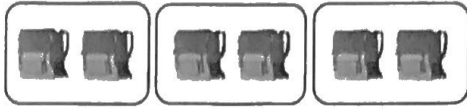
Total items		Items in each group		Number of groups
<input style="width: 30px; height: 20px;" type="text"/>	÷	<input style="width: 30px; height: 20px;" type="text"/>	=	<input style="width: 30px; height: 20px;" type="text"/>

Division Facts

Sheet 1

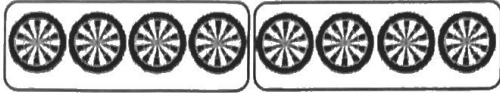
Example:

Write division sentence:



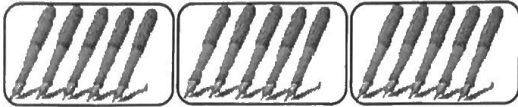
$$\boxed{6} \div \boxed{2} = \boxed{3}$$

1)



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

2)



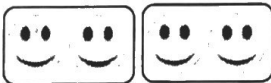
$$\boxed{} \div \boxed{} = \boxed{}$$

3)



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

4)



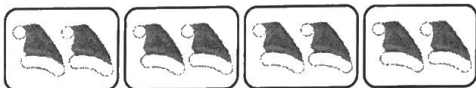
$$\boxed{} \div \boxed{} = \boxed{}$$

5)



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

6)



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

7)



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

8)



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

9)



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

10)



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