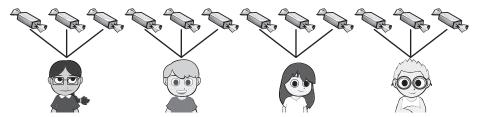
Division – division is sharing and grouping

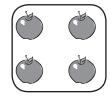
Division can mean sharing *or* grouping.

There are 12 lollies shared between 4 kids. How many are in each share?

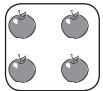


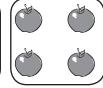
 $12 \div 4 = 3$

There are 16 apples and 4 go into each basket. How many baskets do I need?









$$16 \div 4 = 4$$

- Solve these sharing and grouping questions:
 - **a** There are 9 cupcakes and 3 kids are sharing. How many are in each share?

























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b 10 lollies are shared between a group of kids so they each get 2. How many kids are sharing?













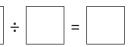












c There are 24 pencils and 6 pencil pots. How many pencils go into each pencil pot?























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Division – division is sharing and grouping

2 Draw pictures to show these division questions. Then write the division fact and decide whether it is a sharing or a grouping question.

If you need to find out how many items there are in each share, it's a sharing question. If you need to find out the number of equal shares, it's a grouping question.



CHECK

	D: : 1 46		4			
a	Divide 16	Iollies between	een 4 giris.	. How many	' does each	girl get !

sharing / grouping

b From a packet of 24 pencils, each person will get 6. How many people are sharing the pencils?

sharing / grouping

c 48 eggs are laid by 6 hens. If they all laid the same amount, how many did each hen lay?

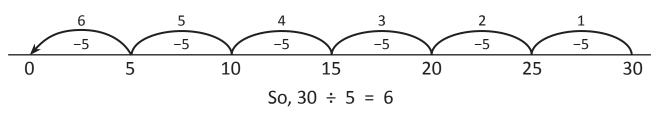
sharing / grouping

Division – division is repeated subtraction

Division can also be thought of as repeated subtraction.

Look at $30 \div 5 =$ This question is asking how many groups of 5 there are in 30. ?

Jump in 5s along the number line and then count the jumps.



- Show these division facts as repeated subtraction. First label the number lines and then show the jumps.
 - $a \ 36 \div 6 =$

0					36
					1

0						21

Write a division fact to match these number lines. Show the jumps.

Division – linking multiplication and division facts

Knowing multiplication facts will help with division facts. This is because they are opposites. Look at how we can describe this array:

- $6 \times 4 = 24$
- 6 groups of 4 is 24.

- $4 \times 6 = 24$
- 4 groups of 6 is 24.

- $24 \div 4 = 6$
- 24 divided into 4 shares is 6.

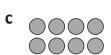
- $24 \div 6 = 4$
- 24 divided into 6 shares is 4.
- Describe each of these arrays using two multiplication and two division facts:

a

- ×
- b
- × =



- X













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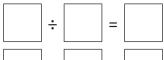
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Draw an array of 6 rows of 3 then describe it with multiplication and division facts.

×







Division – linking multiplication and division facts

Write a fact family for each set of numbers in the triangle. The first one has been done for you.

5 35 a

> 35 7 5

35

35 5

35 ÷ 5

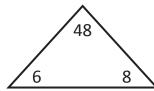
b ×

×

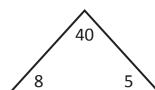
9 3

C ×

×



d X



- For these problems, think of a multiplication fact to help write the division fact:
 - \$25 is shared between 5 people. How much does each person get?

×

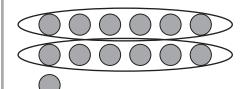
b 45 people get into 9 cars. How many people are in each car?

X

26

Division - remainders

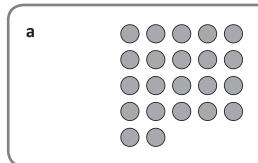
Sometimes division is not exact.



From 13, we can make 2 fair shares of 6 with 1 left over. We call the left over the remainder.

 $13 \div 6 = 2$ remainder 1

In each array, ring the fair shares to see the remainder:



b 00000 00000

C 000000

d 00000000 00000000

27

Division - remainders

Now use your multiplication facts.

Think
$$4 \times 6 = 24 + 1$$
 is 25

So,
$$25 \div 6 = 4$$
 remainder 1

2 Use your multiplication facts to write the division facts and the remainder:



3 Complete each word problem:

a 39 pencils were shared between 6 kids. How many did each kid get?

÷	=	
٠ ا		



b 43 fish were divided between 6 tanks. How many fish are in each tank?

÷	=	
•		

c From 17 flowers, 5 flowers were arranged in each vase. How many vases were used?

4 Write in the missing digit to make this statement true:

$$\div$$
 6 = 8 remainder 2

28

