

Maths: 25.02.21

Year 2 Maths Division

TIME FOR MATHS



Lesson 4

To divide by grouping: consolidation

Spring 2

Success Criteria

I can make equal groups from a set of objects

I know that division is making equal groups

I know that counting equal groups is multiplication or repeated addition



In our lesson today we
continue to practise division
by grouping.

**Watch the lesson video where
I explain each step.**

Key Vocabulary:

equal lots of	equal sets of	equal groups of
grouping	share equally	division
divide	left over	One each, two each...

Sentence Stems:

There areequal groups of (number). There arealtogether.

Example

There are 6 equal groups of 2. There are 12 altogether.

.....can be put into groups of This is the same asbeing divided into groups of which equals This can be written as $\text{.....} \div \text{.....} = \text{.....}$

Example

20 can be put into groups of 4. This is the same as 20 divided into groups of 4, which equals 5. This can be written as $20 \div 4 = 5$

.....divided by equals

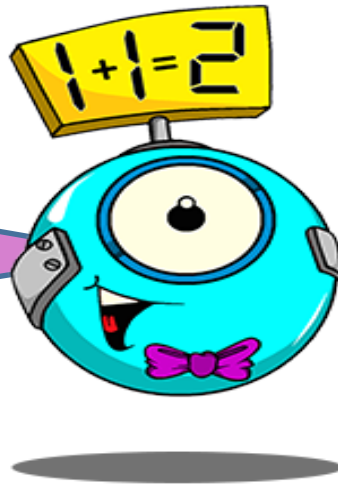
Example

20 divided by 4 equals 5.

Daily Fluency and Recall Tasks

Challenge:

Find 3 numbers that would be in the 2, 5 and 10 times tables and explain how you know.



Try to learn your:

2 times table

5 times table

10 times table

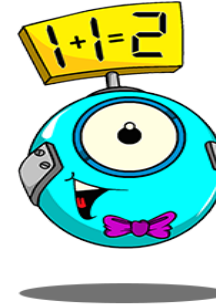
3 x table

Why not try Hit the button at <https://www.topmarks.co.uk/maths-game/hit-the-button>

You could practise your number bonds, and doubles as well.

It's really important that you practise your times tables every day as they will help you with lots of the maths you will meet in KS2.

Revision



Create a number story to match one of the equations.



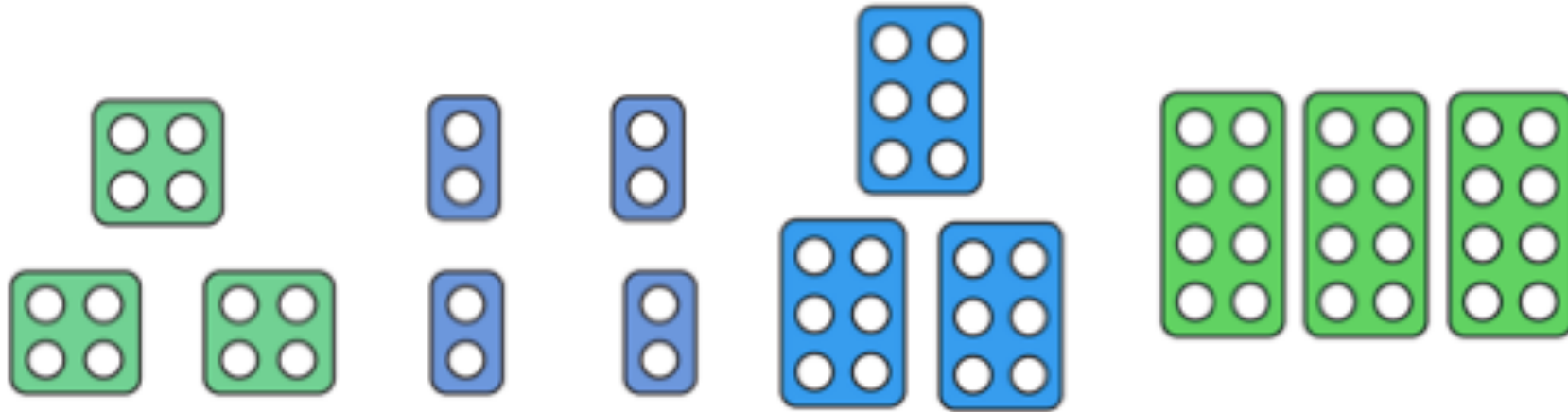
$$\begin{aligned}75 - 28 &= \\32 - 27 &= \\9 \times 10 &= \\10 \div 2 &= \end{aligned}$$

Mrs. Riley has 6 sweets.
She shares them
equally with Mrs.
Hounsell. How many do
they have each?

We practise the key
mathematical operations
every day to help us
improve our skills.

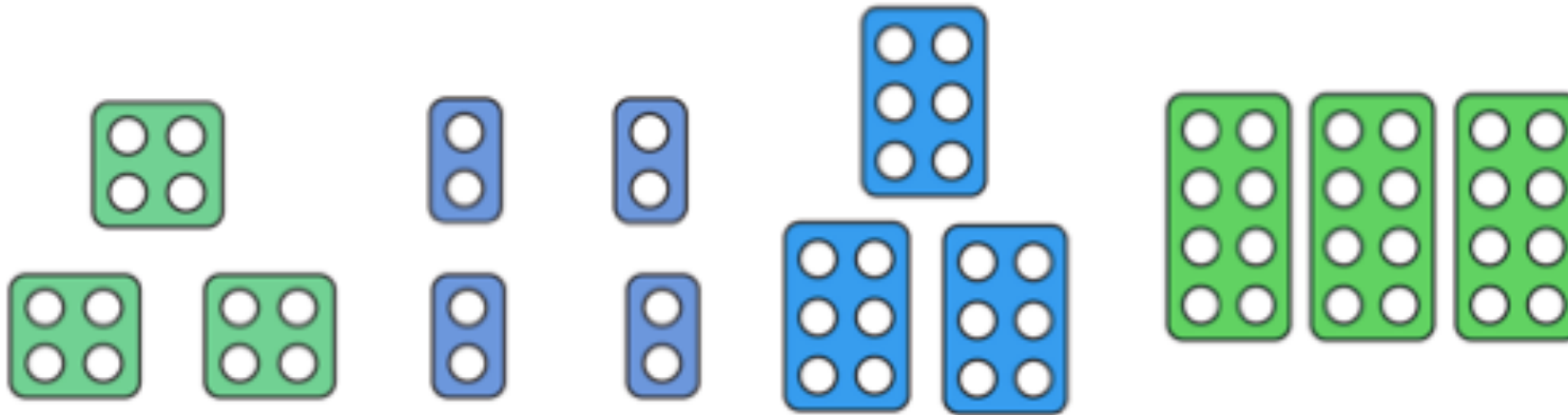
Anchor Task:

Which representation does not belong. Explain your answer.



Anchor Task:

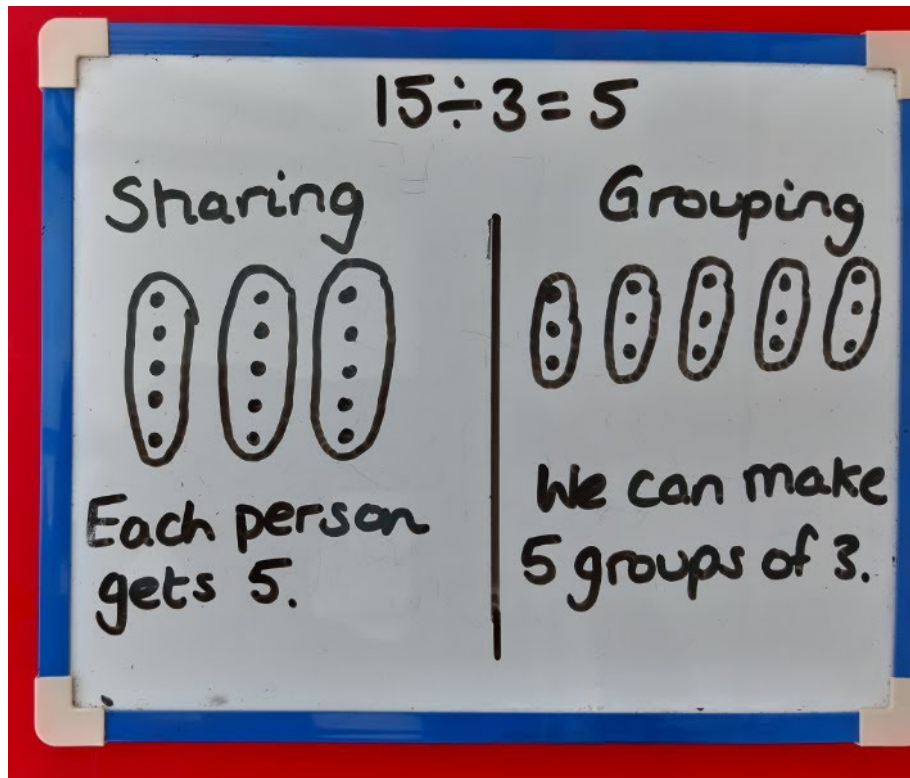
Which representation does not belong. Explain your answer.



There are 3 groups of 4, 3 groups of 6 and 3 groups of 8, but there are 4 groups of 2. Therefore, the Numicon 2 pieces do not belong as there are four of them, the other pieces all have 3 lots.

Recap

This week we have learned how to divide by sharing and to divide by grouping.



Let's recap what we mean by sharing and grouping.

In a sharing problem-

KNOW: groups

DON'T KNOW: the amount in each group

In a grouping problem-

KNOW: the amount in each group

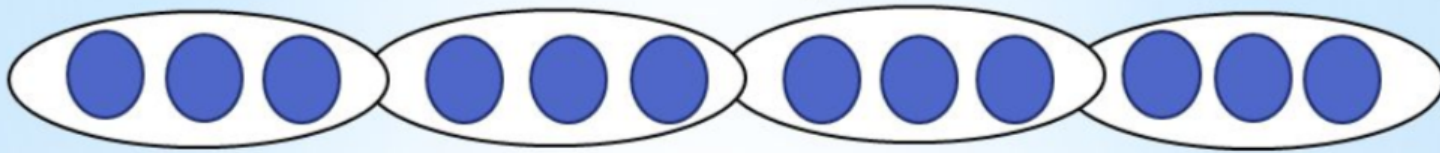
DON'T KNOW: how many groups

Sharing or
Grouping Hints

Grouping and Sharing

$$12 \text{ divided by } 3 = 4$$

Grouping – we know how many are in each group but not how many groups there will be. **The answer is the number of groups.**



Sharing – we know how many groups there are but not how many are in each group. **The answer is the number in each group.**



Use the language of division in every day life. E.g. 10 cakes divided by 5 equals 2 each
10 socks sorted in pairs makes 5 pairs.

When we divide by sharing we know how many groups there will be but **have to work out how many will be in each group.**

When we divide by grouping we know how many will be in each group. **What we have to work out is how many groups we can make.**

Recap

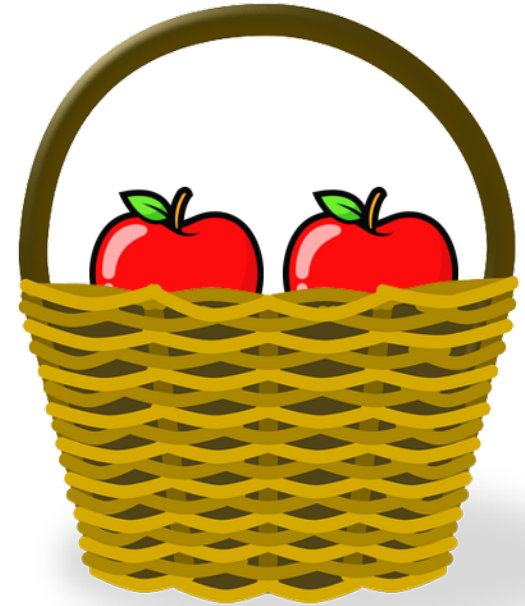
There are 24 apples.

We need to put 2 apples in each basket.

How many baskets will we need?

To be able to divide by grouping, we need to remember how to make equal groups.

Collect 24 pieces of pasta or other small objects and put them into groups of 2. These will be equal groups.



Recap

There are 24 apples.

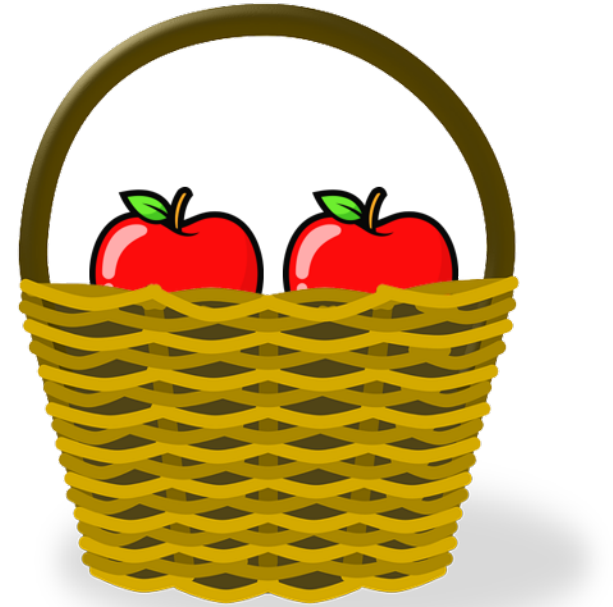
We need to put 2 apples in each basket.

How many baskets will we need?

There are **24** apples altogether.

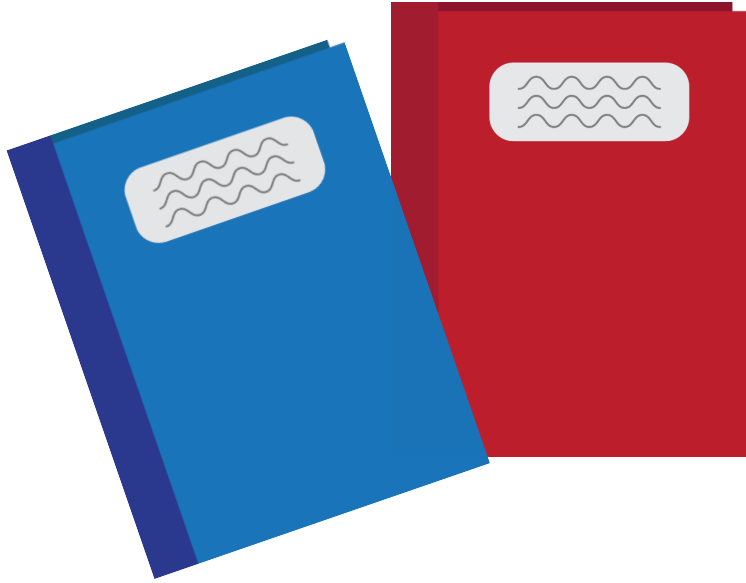
There are **2** apples in each basket.

There are **12** baskets.



Recap

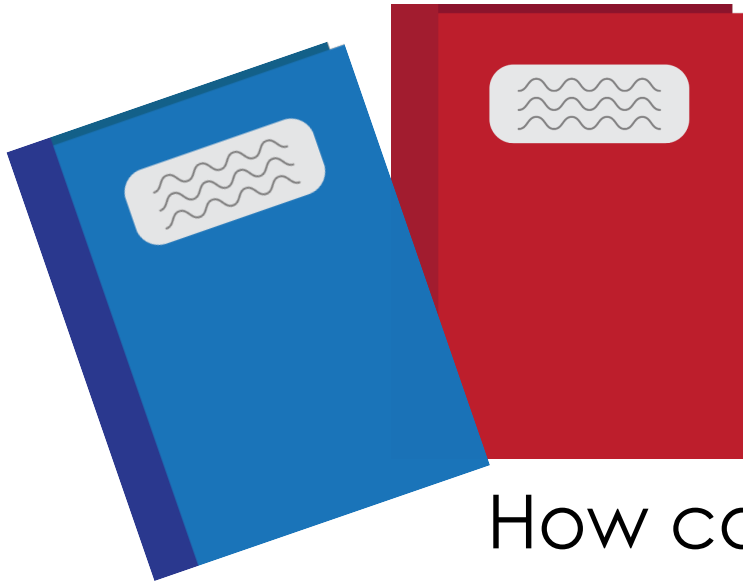
There are 20 books altogether. 5 books go on each table.
How many tables are there in the classroom?



How can you work it out?

Recap

There are 20 books altogether. 5 books go on each table.
How many tables are there in the classroom?

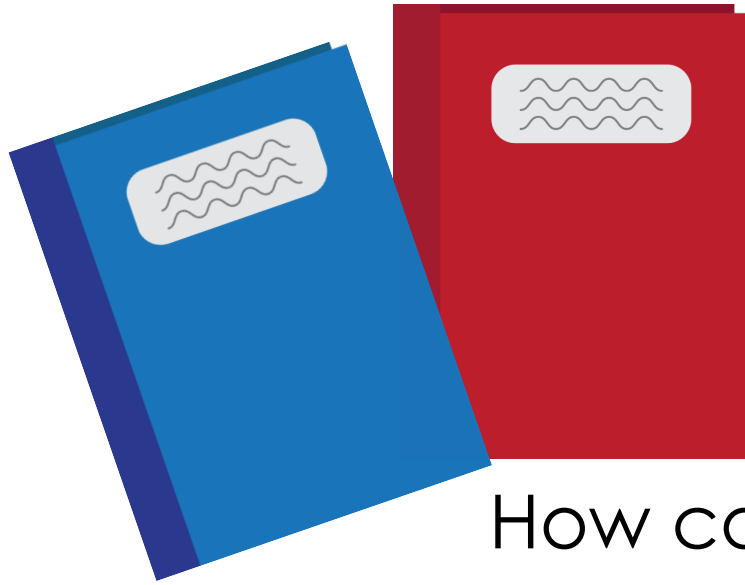


How can you work it out?

20 books altogether put into groups of 5.
How many groups will that be?

Recap

There are 20 books altogether. 5 books go on each table.
How many tables are there in the classroom?



How can you work it out?

There will be 4 groups of 5

$$20 \div 5 = 4$$

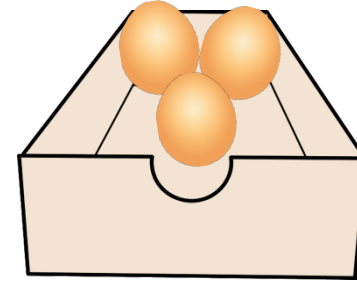
$$(20 \div 4 = 5)$$

Recap

Mrs Riley has 15 eggs.

She puts 3 eggs in each box.

How many boxes can she fill?



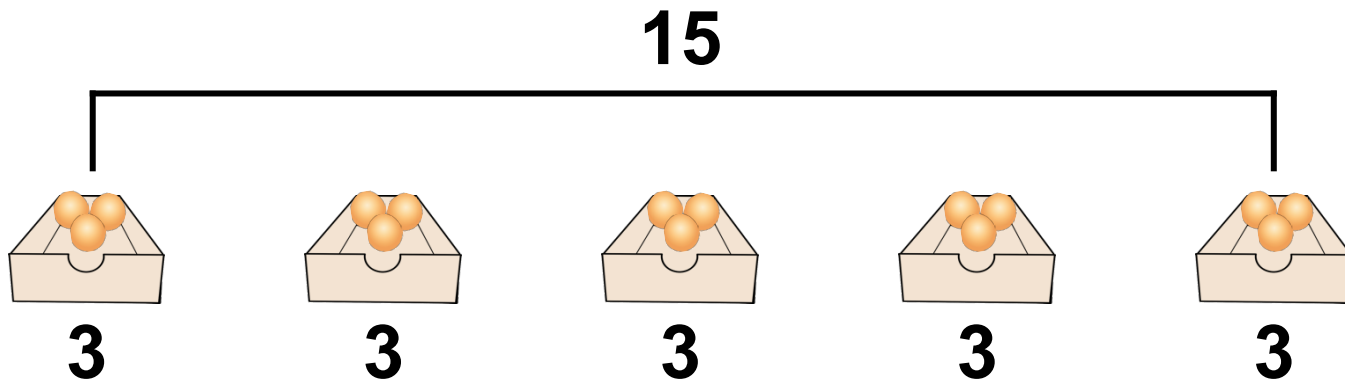
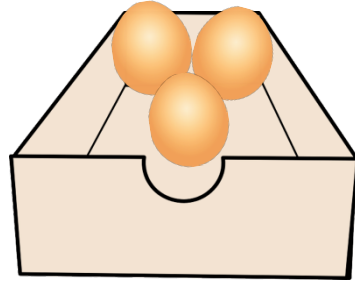
Use pasta or other objects to show how many groups of 3 we can make if we have 15 objects.

Recap

Mrs Riley has 15 eggs.

She puts 3 eggs in each box.

How many boxes can she fill?



Can you see how I have shown the answer to this problem mathematically? I have made a link with my times tables.

$$\boxed{15} \div \boxed{3} = \boxed{5}$$

$$\boxed{3} \times \boxed{5} = \boxed{15}$$

She can fill 5 boxes.

Independent Task 1

Match the calculation to the image.

$20 \div 4$



$12 \div 4$



$25 \div 5$



$9 \div 3$



Independent Task 2

You have 35 cubes.
How many towers of 5 can you make?

You have 24 cubes.
How many towers of 3 can you make?

You have 25p. An ice cream costs 5p. How many ice creams can you buy?

You have 20p. Ice pops cost 2p each. How many can you buy?

You buy 12 flowers. You put 3 flowers in each vase. How many vases do you

There are 18 pencils. Each child gets 3 pencils. How many children are

There are 15 sweets. Each child gets 5 sweets. How many children are there?

There are 22 toys at a party. Each child gets 2 toys. How many children are

You have 70p. Each comic costs 10p. How many comics can you buy?

Make up some examples of your own!

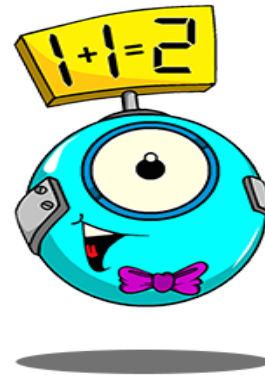


You have 30 cubes. How many towers of 3 can you build?

You have 40 bricks. How many walls of 10 cubes can you make?

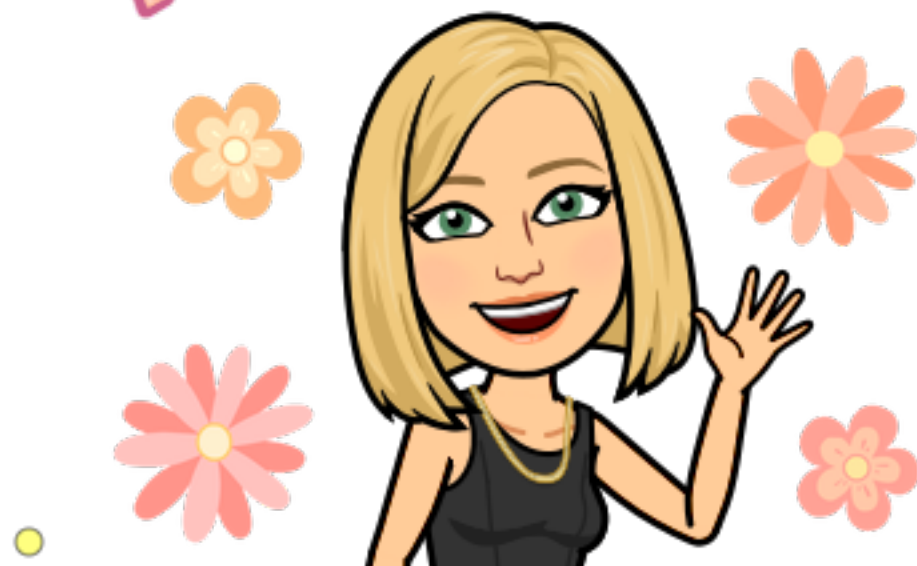
Find a division sentence to solve each problem.
Use the grouping method.

Can you write a second division sentence for each equation?



Show each completed equation as a bar model.

HERE'S THE
ANSWERS



Revision Answers

$$75 - 28 = 47$$

$$32 - 27 = 5$$

$$9 \times 10 = 90$$

$$10 \div 2 = 5$$

Mrs. Riley has 6 sweets.
She shares them
equally with Mrs.
Hounsell. How many do
they have each?

$$6 \div 2 = 3$$



We practise the key mathematical operations every day to help us improve our skills.

$20 \div 4$

$12 \div 4$

$25 \div 5$

$9 \div 3$



Independent Task 2

You have 35 cubes. How many towers of 5 can you make?

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You have 30 cubes. How many towers of 3 can you build?

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$$35 \div 5 = 7$$
$$35 \div 7 = 5$$

$$24 \div 3 = 8$$
$$24 \div 8 = 3$$

$$25 \div 5 = 5$$

$$20 \div 2 = 10$$
$$20 \div 10 = 2$$

$$12 \div 3 = 4$$
$$12 \div 4 = 3$$

$$18 \div 3 = 6$$
$$18 \div 6 = 3$$

$$15 \div 5 = 3$$
$$15 \div 3 = 5$$

$$22 \div 2 = 11$$
$$22 \div 11 = 2$$

$$70 \div 10 = 7$$
$$70 \div 7 = 10$$

$$30 \div 3 = 10$$
$$30 \div 10 = 3$$

$$40 \div 10 = 4$$
$$40 \div 4 = 10$$