

Disclaimer

We hope you find the information on our website and resources useful.

Animations

This resource has been designed with animations to make it as fun and engaging as possible. To view the content in the correct formatting, please view the PowerPoint in 'slide show mode'. This takes you from desktop to presentation mode. If you view the slides out of 'slide show mode', you may find that some of the text and images overlap each other and/or are difficult to read.

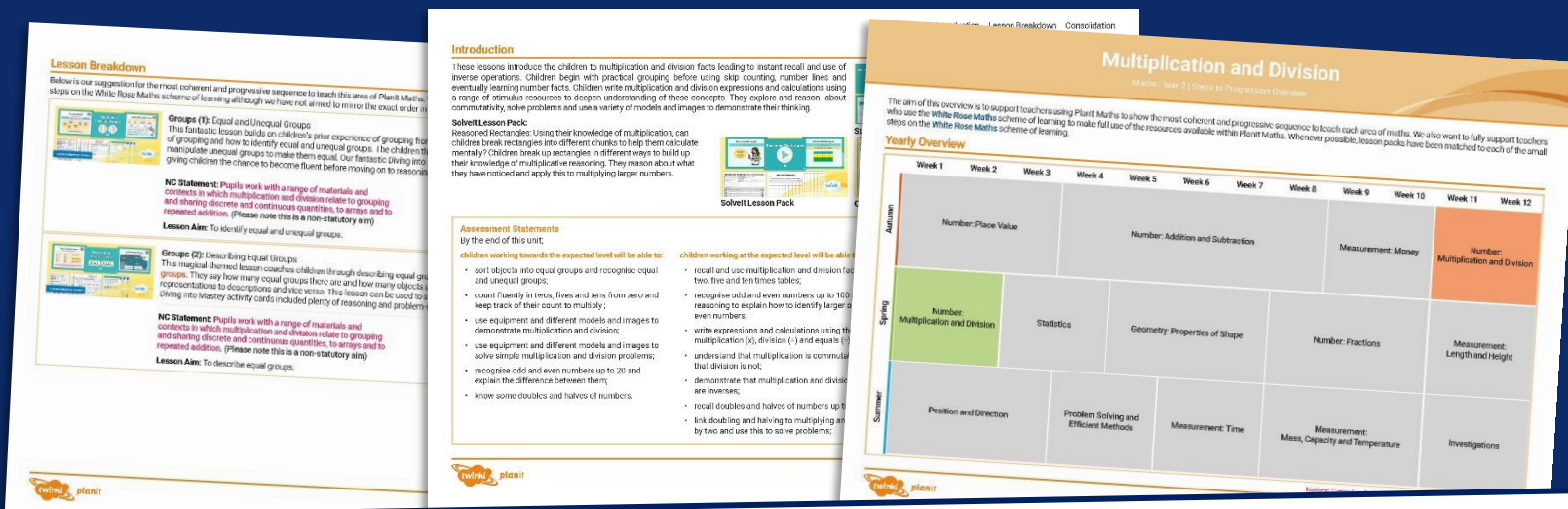
To enter slide show mode, go to the **slide show menu tab** and select either **from beginning** or **from current slide**.



Maths

Multiplication and Division

Need a coherently planned sequence of lessons to complement this resource?



See our [Multiplication and Division Steps to Progression](#) document.

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Division by Sharing



Aim

- To divide by sharing.

Success Criteria

- I can share objects equally into groups.
- I can use skip counting as an efficient method to divide by sharing.
- I can solve division problems by using sharing.

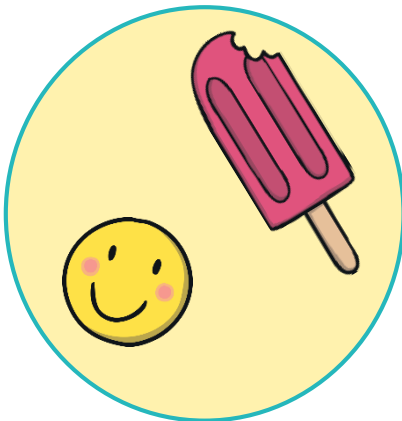
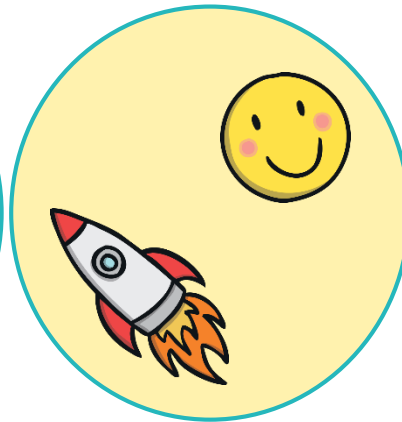
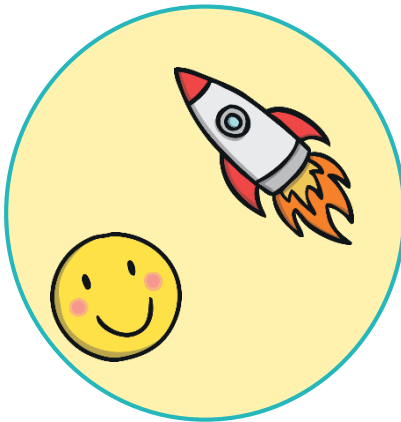
Remember It



Stickers come in packs of 2.
Eva has 16 stickers.

How many packs did she buy?

8 packs

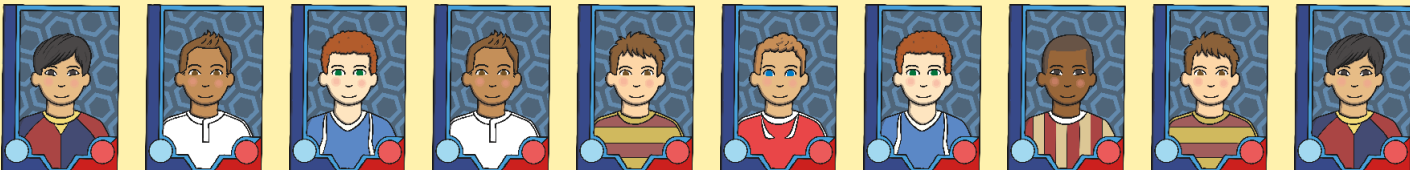
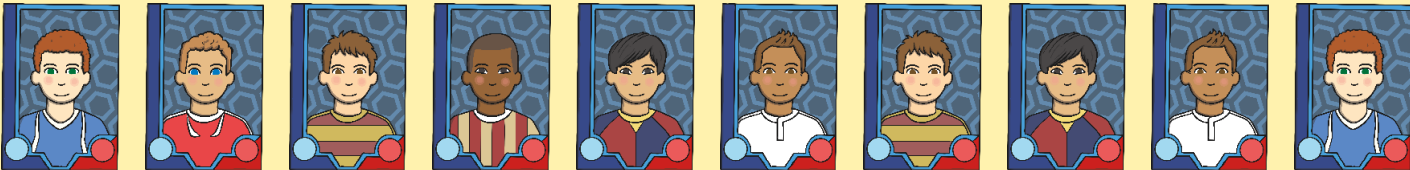
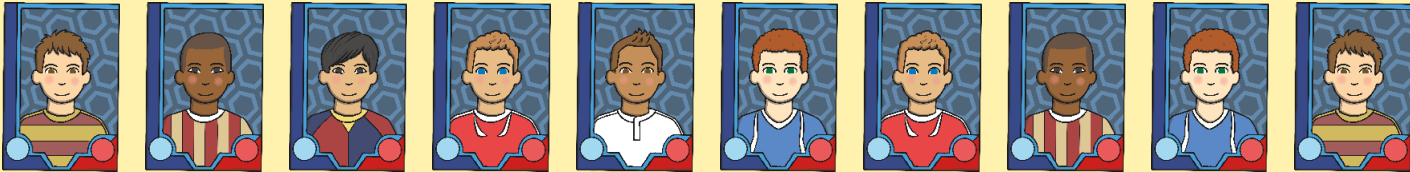
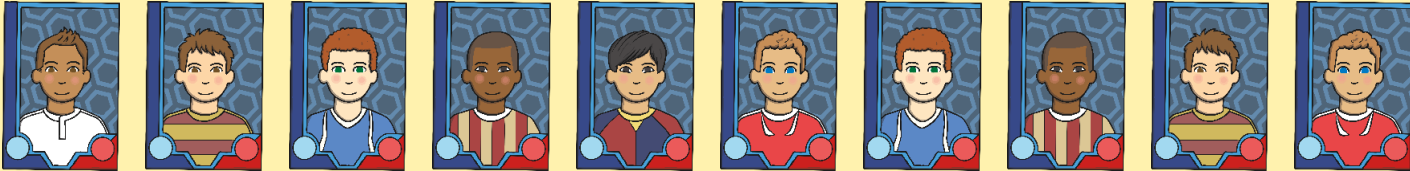


Remember It



Football stickers come in packs of 10. Elias has 40 stickers.
How many packs did he buy?

4 packs

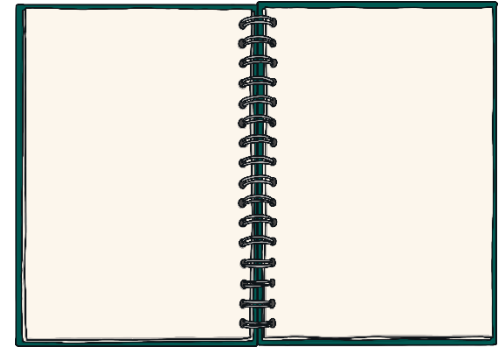
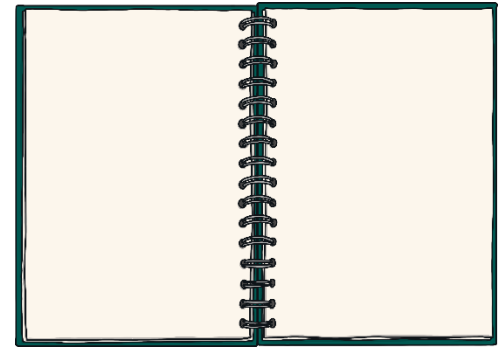


We can use division to represent sharing problems.

Eva has 12 of her favourite stickers and she would like to share them equally between her and her best friend Marcel. **How many stickers do they each get?**

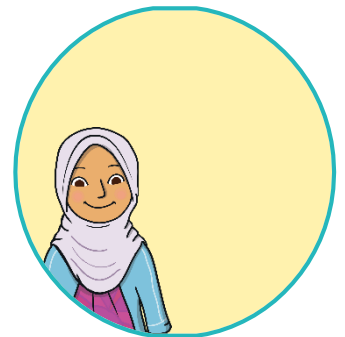
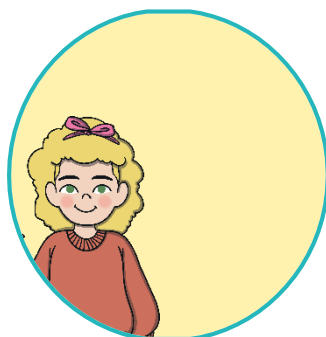
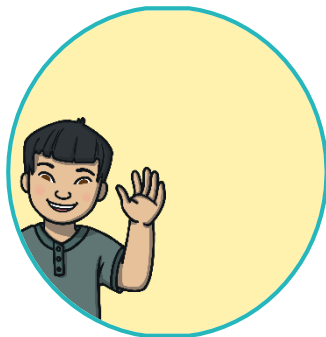
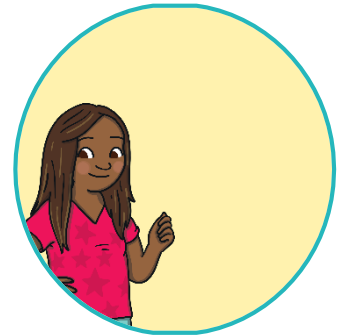
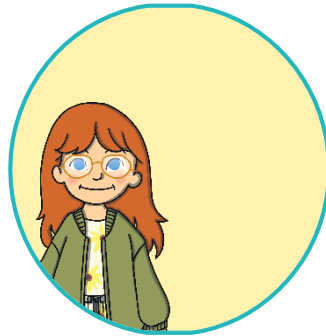
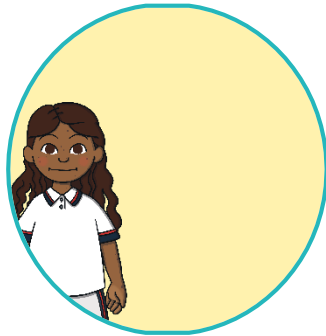


Elias has 25 stickers and he would like to share them equally between his 5 sticker books. **How many stickers go in each book?**



Eva has 30 stickers and she wants to share them equally between her 10 friends.

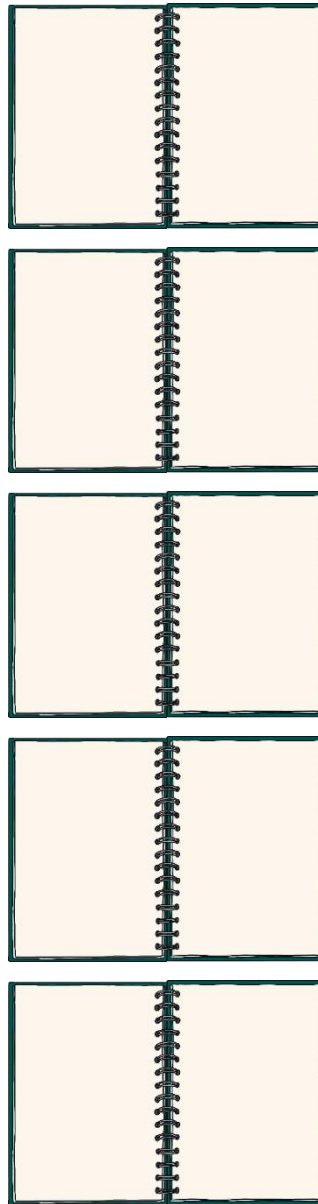
How many stickers will each friend get?



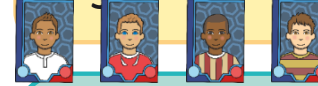
Skip Counting

I'm going to share my 40 stickers between 5 sticker books.

That took me a while but I did it!



Was Elias' method of sharing a good method to use?



There were a lot of stickers so this method took a long time. Because there were

so many stickers to deal out, Elias made a couple

of mistakes.



Skip Counting

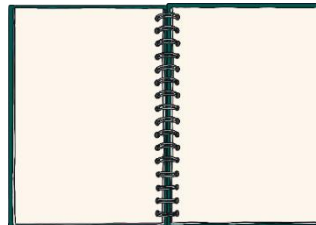
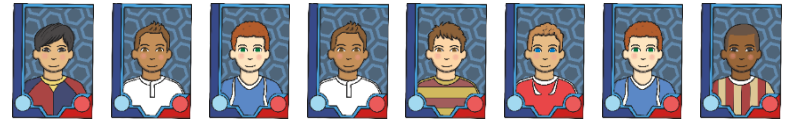
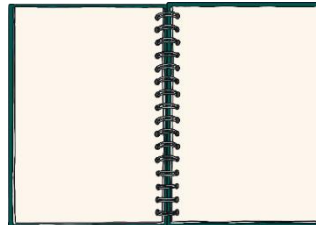
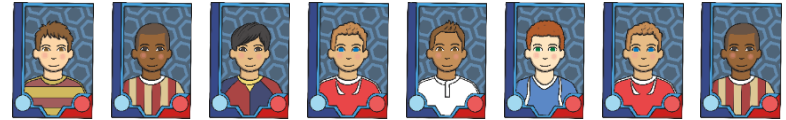
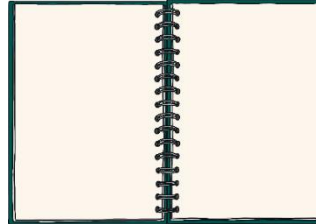
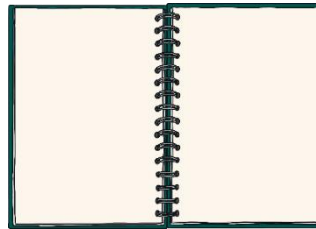
I'm going to share my 40 stickers between 5 sticker books.

We can use skip counting to solve a sharing problem too.

Because they are being **divided by 5 sticker books**, we can count in 5s up to 40.

equal to 8 each.

Each book will get 8 stickers.



Skip Counting

Let's share 50 stickers between 10 children.

How many stickers will each child get?

What can we count in to solve this problem?

Because they are being **divided by 10 children**, we can count in 10s up to 50.

50 divided between 10 is equal to 5 each.

$$50 \div 10 = 5$$

Counting in tens was much quicker than sharing the stickers one at a time.



Skip Counting

Let's share 50 stickers between 10 children.
How many stickers will each child get?

What does each part of the calculation represent?

total number of stickers

number of stickers each child gets

$$50 \div 10 = 5$$

number of children the stickers are being shared to



Skip Counting

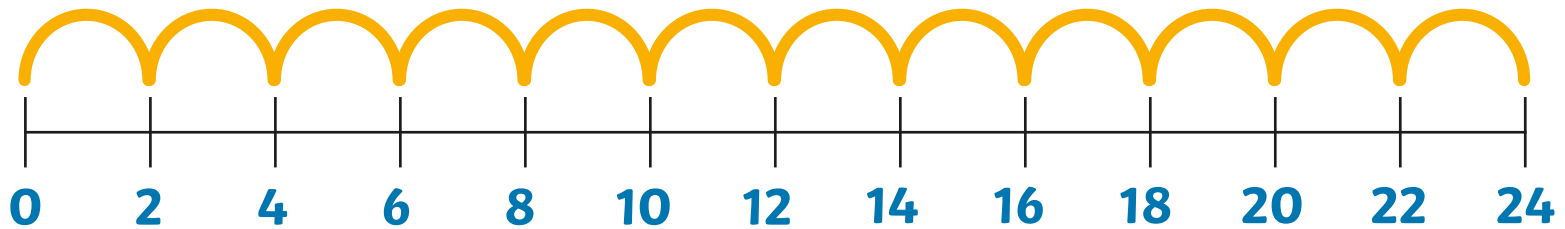
Let's share 24 stickers between 2 sticker books.

How many stickers will go in each book?

What can we count in to solve this problem?

Because they are being **divided by 2 sticker books**, we can count in 2s up to 24.

24 divided between 2 is equal to 12 each.



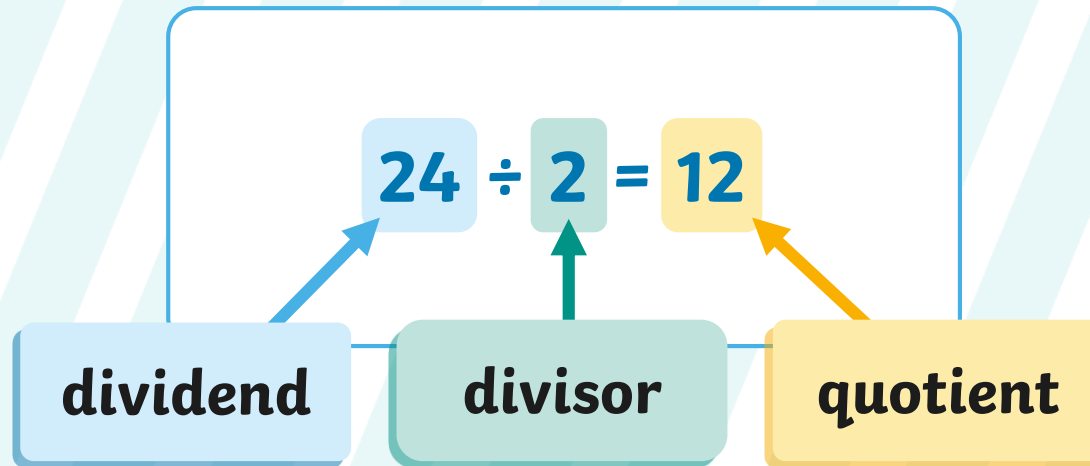
What does each part of the calculation represent?

total number of stickers

$$24 \div 2 = 12$$

number of stickers in each book

number of books



We can skip count using the **divisor** up to the **dividend** to find the **quotient** .

Division by Sharing

Division by Sharing

There are 20 stickers to share between 10 friends.
How many stickers will they each get?

Division by Sharing

To divide by sharing,

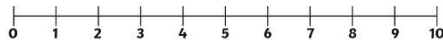
Tick the expression that matches the problem.
Then, skip count on the number line to find the answer.

There are 10 stickers to share between 2 friends.
How many stickers will they each get?

$10 \div 2$

$10 \div 5$

10×2



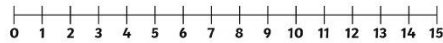
Each friend will get stickers.

There are 15 stickers to share between 5 friends.
How many stickers will they each get?

$15 \div 3$

$15 \div 5$

15×5



Each friend will get stickers.



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Division by Sharing

Eva wants to share her 30 stickers between 10 friends.
How many stickers will each friend get?

Division by Sharing

To divide by sharing,

Complete the expressions and use the number lines to solve the problems.

Eva wants to share her 16 stickers between 2 books.
How many stickers will go in each book?

$16 \div \square = \square$



Each book will have stickers.

Elias wants to share his 25 stickers between 5 friends.
How many stickers will each friend get?

$25 \div \square = \square$



Each child will have stickers.



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Division by Sharing

To divide by sharing,

Complete the calculations and solve the problems using skip counting.

Eva wants to share her 20 stickers between 2 books.
How many will she stick in each book?

$20 \div \square = \square$

There will be stickers in each book.

Elias wants to share his 30 stickers between 5 friends.
How many stickers will each friend get?

$30 \div \square = \square$

Each child will have stickers.

Eva wants to share her 30 stickers between 10 friends.
How many stickers will they each get?

$\square \div \square = \square$

Each friend will have stickers.

Elias wants to share his 26 stickers between 2 books.
How many will he stick in each book?

$\square \div \square = \square$

He will stick stickers in each book.

Eva shared her 50 stickers equally between her sticker books.
Each sticker book had 5 stickers stuck in.
How many sticker books does she have?

$50 \div \square = 5$

Eva has sticker books.

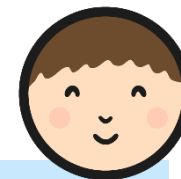


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Diving into Mastery



Dive in by completing your own activity!



Division by Sharing



20 stickers are shared into 10 piles.

How many stickers will be in each pile?



There are stickers in total.

There are piles.

There are stickers in each pile.

$$\square \div \square = \square$$

Eva has 30 stickers. She wants to share them between her 5 friends.

How many stickers will each friend have?

$$\square \div \square = \square$$

Each friend will have stickers.



There are 20 stickers to share between children.



If there are 2 children, how many stickers will they each get?

10 stickers each.

What about if there were 5 children? Would they get more or less stickers each?

There will be less. Each child will have 4 stickers each.

How many stickers would they each get if there were 10 children?

2 stickers each.

Aim



- To divide by sharing.

Success Criteria

- I can share objects equally into groups.
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- I can solve division problems by using sharing.

