Engage

$$4 \times 2 =$$

$$2 \times 2 =$$



$$10 \times 2 =$$

$$8 \times 2 =$$

Key Learnin: To divide a number by 2 using the sharing method.

Success Criteria

- I understand what division is and I can recognise a division sign.
- I can write a division equation.
- I can share the whole into equal groups.

Deepening -I can solve division word problems

Star words

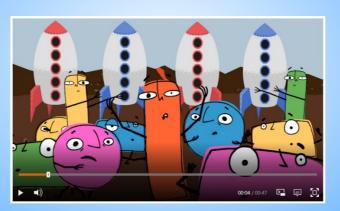
division sharing groups of divide equal groups





Do you know what **dividing** means?

Dividing means sharing something into equal groups or parts.





What does a division sign look like?



Today we are going to be sharing numbers into **2 equal parts**. When we split numbers into 2 equal parts, this is also known as finding 'half' of a number.



Introduce

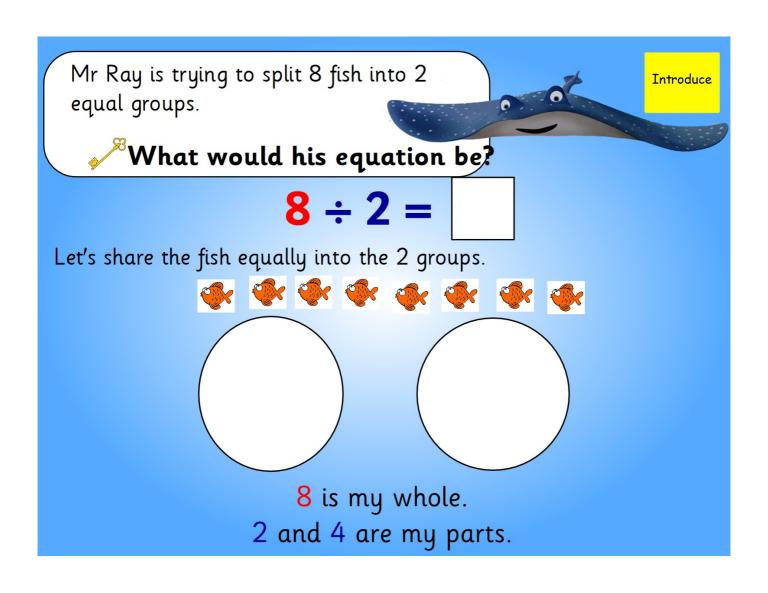
We need to divide 10 shells equally between Nemo and Dory.

How many shells do they each get?



We can write this as $10 \div 2 = 5$

10 is my whole.2 and 5 are my parts.

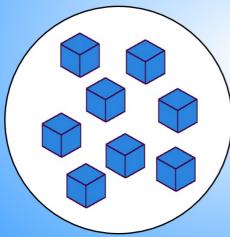


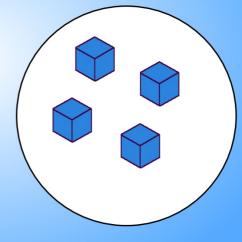
Miss Hughes has tried to solve the following equation. Has she done it correctly?



I think Miss Hughes is...because...

 $12 \div 2 = 8$





Miss Hughes has made a mistake! She has not shared the cubes equally between the groups.

We need to split these 6 cubes into 2 equal groups.

Practise and consider 5 mins

So my equation is.. 6 ÷ 2 =













What should we do first?

- 1. Draw 2 circles
- 2. **Share** the cubes equally between each circle.
- 3. Count up how many are in each circle.

My answer is $6 \div 2 = 3$



Where is my whole? Where are my parts?

It's your turn! In pairs, use the cubes or dienes to solve each equation.

Practise and consider 5 mins

- 1. Draw **2** circles on your whiteboard
- 2. Share the cubes equally between each circle.
- 3. Count up how many are in one of the circles.
- 4. Write down your answer.

In pairs, use cubes / dienes to solve the following equations.



$$6 \div 2 = 10 \div 2 = 4 \div 2 =$$

$$8 \div 2 = 14 \div 2 = 20 \div 2 = 20$$

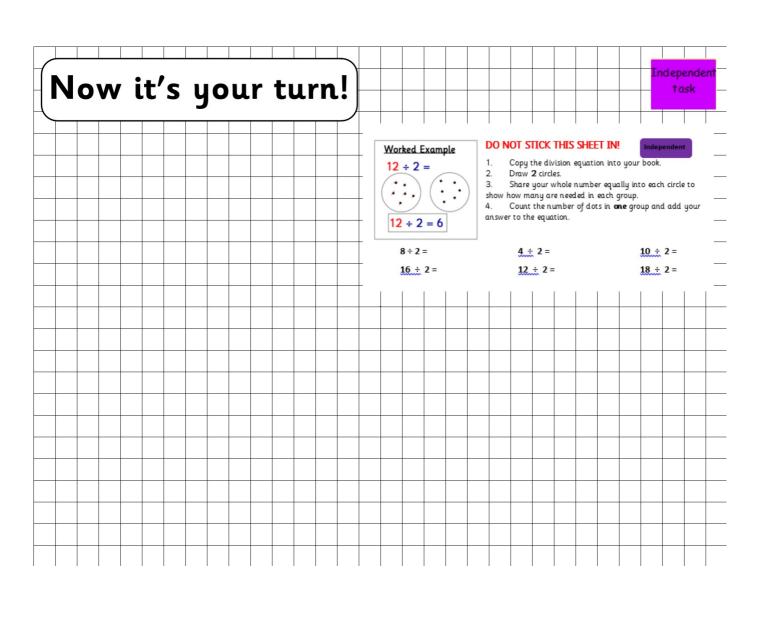


Miss Tinker thinks she can only divide even numbers by 2. Is she correct?

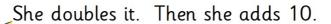


Let's choose an odd number. Can we share it equally between the 2 circles?

Miss Tinker is correct! Only even numbers can be divided by 2 equally!



Dory is thinking of a number.



Her answer is 24.

What number did she start with?

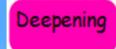
Questions to think about

What do we mean when we double a number?

What is the inverse of doubling?

What is the inverse of addition?

Going Deeper



I think of a number. I double it. Then I add six to get 26. My answer is 42. What number did I start with?	Show no state of the state of t	digit num True or fi Explain y	halve a two-digit number, I always get a one- lber."
Nemo says: I know that $40 \div 2 = 20$ because I know that $4 \div 2 = 2$. Use the sharing method to explain why Nemo is correct.	Key learning: to do by 2 using the sho		Write your own division story for: $10 \div 2 =$

Reflection



What does <u>dividing</u> mean?

Dividing means sharing something into equal groups or parts.



What is the same as dividing a number by 2?

Halving!