Can you use the sharing method to solve these equations?



Engage

$$14 \div 2 =$$

$$15 \div 5 =$$

$$18 \div 2 =$$

$$25 \div 5 =$$

$$10 \div 5 =$$



Where are the whole and parts in these equations?

**Key Learnin**: To solve division equations using the grouping method.

## Success Criteria

- I can draw the correct number of dots for the whole.
- I can divide the whole by grouping the dots.
- I can write the division equation.

Deepening -I can solve division word problems



division sharing groups of divide equal groups

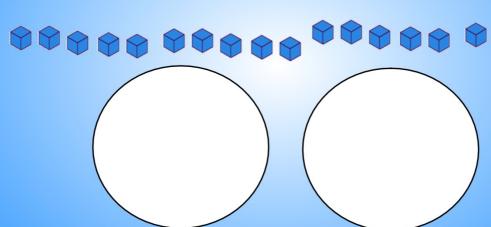
We have been learning how to divide something by **sharing** it into **equal** groups.



Let's Recap

Let's do this one together:

$$16 \div 2 =$$



16 is my whole.2 and 8 are my parts.

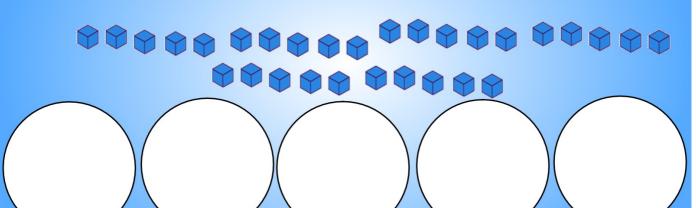
We have been learning how to divide something by **sharing** it into **equal** groups.



Let's Recap

Let's do this one together:

$$30 \div 5 =$$



30 is my whole.5 and 6 are my parts.

We can also solve a division equation by grouping the whole.

(5 mins)

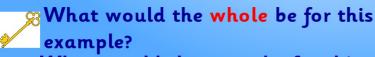
## What does grouping mean?

Grouping is when we work out how many equal groups there are within the whole.

**Step 1**. Draw the correct number of dots for your whole number.

**Step 2.** Draw circles around the number of the dots in each group.

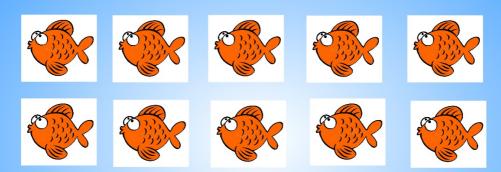
**Step 3**. Count the number of groups and add your answer to the equation.



What would the parts be for this example?

We need to divide these 10 fish into groups of 2.

Introduce



What do we need to do to solve this problem?

We need to draw circles around groups of 2. Then we can count up how many groups there are.

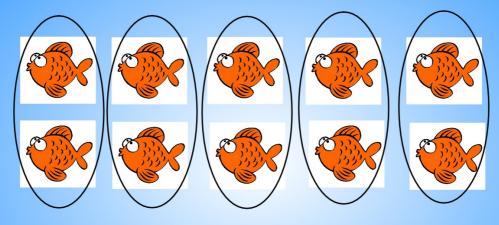
 $10 \div 2 = 5$ 

The **10** represents the number of fish (**whole**).

The **2** represents the numbers of fish in each group (**part**).

The **5** represents the number of groups (part).

Introduce



## Let's now fill in the gaps in these sentences:

\_\_ has been divided into groups of \_\_

\_\_divided by \_\_ equals \_\_

Let's try another! We need to divide these 15 shells into groups of 5.

Introduce





What do we need to do to solve this problem?

The **15** represents the number of shells (**whole**).

The **5** represents the numbers of shells in each group (**part)**.

The 3 represents the number of groups (part).

Introduce





How do we write this as an equation?

How many altogether?

How many in each group?

How many groups do we have?

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=

Let's try some together!

Practise and consider



We need to work out  $8 \div 2 =$ 

What do we need to do first?

How do we write this as an equation?

How many altogether? How many in each group?

How many groups do we have?

Let's try some together!

Practise and consider



We need to work out  $20 \div 5 =$ 

What do we need to do first?



How do we write this as an equation?

How many altogether? How many in each group?

How many groups do we have?

Let's try some together!

Practise and consider



We need to work out  $18 \div 2 =$ 

What do we need to do first?



How do we write this as an equation?

How many altogether? How many in each group?

How many groups do we have?

85 /47

What strategy do you think we could use for this division equation?

Going Deeper

Neither!

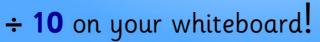
When we divide by 10 we just need to **crack the** egg!



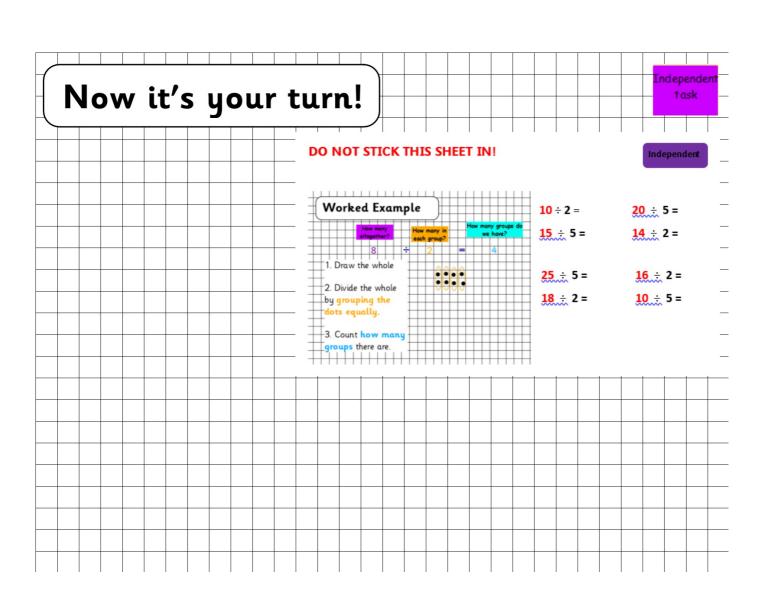
 $40 \div 10 = 4$ 



Using this new strategy, can you solve 60







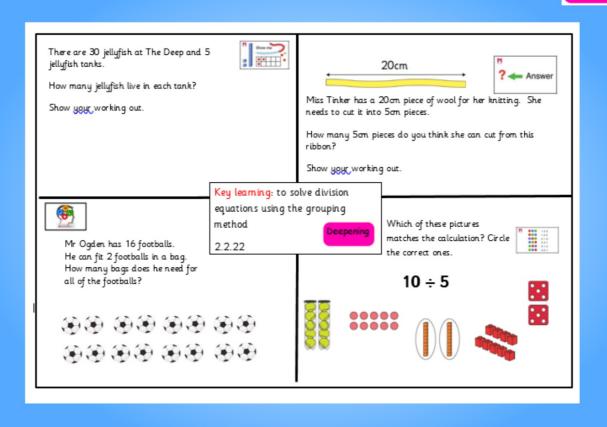
Deepening



Mrs Granger is making some bracelets. She has 25 beads.
She can fit 5 beads on a bracelet.
How many bracelets can she make?



Deepening



Reflection

Let's the **sharing** method to solve this equation.

$$15 \div 5 =$$

Let's use the grouping method to solve this equation.

$$15 \div 5 =$$



Is the answer the same?