

# Diving into Mastery - Diving

## Adult Guidance with Question Prompts

Children use their ability to count in two, group and share equally to divide by two. They use the symbols  $\div$  and  $=$  to write calculations. They may use concrete materials, drawings or number lines to help them.

How many shoes are there?

How many will go in each box/group?

How many boxes/groups are there?

How could we write this grouping as a calculation?

Which multiplication fact is linked to this division?

How many are in a pair?

Can you ring each pair of flip-flops?

How many flip-flops are there?

How many pairs have you made?

Which calculations can we write to represent the flip-flops?

## Divide by 2



There are \_\_\_\_\_ shoes altogether.

We put 2 in each box.

There are \_\_\_\_\_ groups.

_____ $\div$ _____ = _____
_____ $\times$ _____ = _____

Ring each pair of flip-flops.



_____ $\div$ _____ = _____
_____ $\times$ _____ = _____

There are \_\_\_\_\_ flip-flops in total.

Each pair has \_\_\_\_\_ flip-flops.

There are \_\_\_\_\_ pairs of flip-flops.

# Diving into Mastery - Deeper

## Adult Guidance with Question Prompts

Children reason about division statements in words, representations and as calculations. They use the symbols  $<$ ,  $>$  and  $=$  to compare division statements. They may use concrete materials, drawings or number lines to help them solve the division calculations.

What do the symbols  $<$ ,  $>$  and  $=$  mean?

What does the  $\div$  symbol mean?

What do we need to do before we can decide whether the statements are true or false?

How will you solve the division calculation?

What could you use to help you?

Do you think this statement is true or false?

## Divide by 2



Are these statements true or false? Explain why.

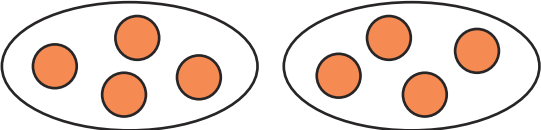
$$10 \div 2 > 8 \text{ divided by } 2$$

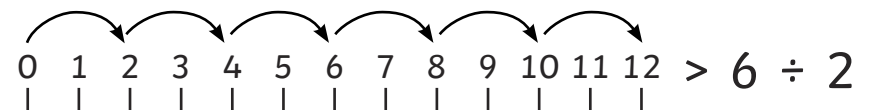
$$20 \text{ split up into groups of } 2 = 20 \div 2$$

$$12 \text{ shared between } 2 < 2 \div 2$$

$$24 \text{ divided by } 2 > 12 \div 2$$

$$10 \text{ shared between } 2 = 5 \div 2$$

$$8 \div 2 =$$
A diagram illustrating the division of 8 items into two equal groups. On the left, the equation  $8 \div 2 =$  is followed by an equals sign. To the right of the equals sign are two ovals. The first oval contains four orange circles, and the second oval also contains four orange circles.



# Diving into Mastery - Deepest

## Adult Guidance with Question Prompts

Children use their knowledge of division by sharing and grouping to solve word problems. They may use concrete materials, drawings or number lines to help them solve the problems.

How will you solve the problem?

What do you need to do?

Can you write a calculation using the division symbol?

What could you use to help you find the answer?

Can you write a problem like this?

## Divide by 2



Solve these problems.

Two children sit at each table.  
How many tables do I need for  
20 children?



John has 18p in 2p coins. How  
many 2p coins does he have?



I put 2 sausages on each plate.  
I have 12 sausages. How many  
plates do I need?



How many groups of 2 can I make with 14?

How many 2s are there in 16?

Make up some of your own problems like this for  
a friend to solve.