Sharing with Equal Groups

Task 1 You will need some counters   Sharing

Bert has 10 donuts. He wants to share them equally into 2 groups. Can you share them into 2 equal groups? Let's do it together. You need 2 groups, share the 8 donuts one by one between the 2 groups. Count up to eight as you share them. How many donuts are there in each group? So you shared 8 donuts between 2 groups and that gave you 4 in each group. Like this.

O O O O O

So we know: 8 shared into 2 groups = 4

O O O O O

 Now try these:

Doris has 10 pink wafers. She wants to share them into 5 equal groups. How many would there be in each group? Draw wafers into 5 groups to work this out.

Jim has 14 rocky road cakes. He wants to share them into 2 equal groups. How many would there be in each group? Draw these into 2 groups to work this out.

Ken has 16 choc rolls. He wants to share them into 8 equal groups. How many would be in each group? Draw them into 8 groups to work this out. Super Stars!

Task 2   Sharing Vehicles

Arthur has 8 cars to park in equal groups in the multi story car park. There are 2 levels. How many cars would he put in each level? Draw them and write the sum.

Rose has to park 15 tractors in equal groups in the farmer's field. There are 3 fields How many tractors would she put in each field? Draw them and write the sum.

John has 12 motorbikes to park in equal groups in the motorcycle bays. There are 3 bays. How many would be in each bay? Draw them and write the sum.

Ruth has to park 9 aeroplanes in their hangers. There are 3 hangers. how many aeroplanes will there be in each hanger? Draw them and write the sum.   Good work!

Task 3   Let's call it Division ÷

Look at the maths symbol ÷ it means " shared between"
But we can also start using the word 'divide' instead of 'share'

To share a number and to divide a number mean the same thing.
$10 \div 5$ also means 10 divided into 5 groups.
This sign ÷ is actually called a division sign.
Can you work out these division sums? You can use your counters, Write them down.

$6 \div 2 =$ $8 \div 4 =$ $9 \div 3 =$ $10 \div 2 =$ $12 \div 6 =$ $14 \div 7 =$ $16 \div 8 =$

$16 \div 4 =$ $18 \div 6 =$ $20 \div 5 =$

If you love doing these make up some of your own. Clever clogs!

Task 4   Let's go higher! You can do this!

We are doing the same thing, dividing numbers but the numbers are just getting a bit bigger. You can do this!

$18 \div 6 =$ $21 \div 7 =$ $22 \div 11 =$ $24 \div 3 =$ $27 \div 9 =$ $30 \div 10 =$

You did it!

Task 5   How many equal groups can we make?

Let's see how many equal groups we can make from one number.

Let's explore this together. Find 8 counters.

Share 8 into 1 group. Yes that is 8 so $8 \div 1 = 8$

Now try sharing 8 into 2 equal groups, can you do that? Yes

(Do you remember from last week we know that 8 is an even number so we can divide it into 2 groups?)

So we know that $8 \div 2 = 4$

Can we share 8 into 3 groups? Try it.

-no- one group is always a different number, so let's move on

Can we share 8 into 4 groups? Try it.

-yes –so we know that $8 \div 4 = 2$

Experiment to find out how many groups you can make from these numbers. 12 16 18

Please draw the groups (you can do circles or crosses) and write down your division sums.

Well done. You have worked hard this week.

 (If you enjoyed those you can choose to do these: 20 and 24.)