

## Wednesday 27<sup>th</sup> January 2021

L.O: I am getting better at dividing by 10.

Today we will be looking at dividing by 10.

To do this you will need to either group or share to help you divide by 10, but this will depend on the question.

You will begin to think about what you can use to represent the problem.

How does knowing your 10 times table help you to divide by 10?

100 Square									
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Can you circle or colour in all the multiples of 10 on a hundred square board?

What do you notice about the numbers?

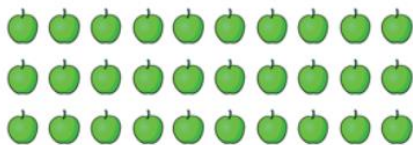
Can you explain the pattern?

How does this help you to divide the numbers?

### Example

Apples can be sold in packs of 10.

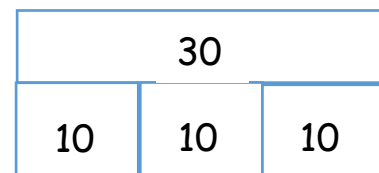
How many packs can be made below?



When 30 apples are sold in packs of 10, 3 packs of apples can be made.

$$30 \div 10 = 3$$

Can you show this in a bar model?



Group of 10    Group of 10    Group of 10

Can you draw a bar model to represent  $60 \div 10$ ?

Please draw your bar model and solve the question  $60 \div 10$ .

$$60 \div 10 = \underline{\hspace{2cm}}$$

I have 70p in my pocket made up of 10p coins. How many coins do I have?

Can you please draw a picture to show your answer?



Can you please draw your picture and write the mathematical sentence to go with it?

Can you fill in the missing numbers?

$$70 \div 10 = \underline{\quad}$$

$$6 \text{ tens} \div 1 \text{ ten} = \underline{\quad}$$

$$5 = \underline{\quad} \div 10$$

There are        tens in  
40

I know that 50 is 5 tens.  
I can work out  $5 \times 10$  by  
making 5 groups of 10.

Can I work out  $8 \times 10$  the  
same way?

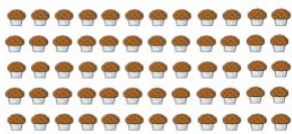
Please show me how you  
have worked out the  
answer.

Dividing by 10 is the same as dividing by 5 and then dividing by 2.

Is this true or false?

Please show me how you have worked out your answer.

Cakes are sold in boxes of 10.  
Jack and Alex are trying to pack these cakes into boxes.



Jack says that there are 5 groups of 10.

Alex says that there are 6 groups of 10.

Who is correct?

Please show me how you have worked out the answer.

Mrs Owen has some sweets.

She shares them equally  
between 10 tables.

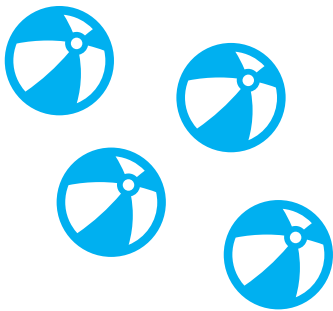
How many sweets could  
each table have?

Find as many ways as you  
can.

What do you notice about  
your answers?

Please show me how you  
have worked out the  
answer.

Can you share the 30  
balls between 10 people?



Please show me how you  
have worked out the  
answer.

### Extension

Are these questions true or false?

$$40 \div 4 > 40 \div 4$$

If you divide a number by 10, the answer is always odd.

If you divide 60 by 10, the answer is even.

To halve a number, you divide it by 10.

Please show me how you have worked out the answer.

If there are 60 eggs and you group them into boxes of 10, there will be none left over.

Is this true or false?

Please show me how you have worked out the answer.

Mr Smith shares 30  
books between 10 tables.

How many will be on each  
table?

Please show me how you  
have worked out the  
answer.

$$\underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Pencils come in a pack of  
10.

I need 80 pencils.

How many packs do I  
need?

Please show me how you  
have worked out the  
answer.

Can you write your own  
sharing story to match  
the calculation?

$$60 \div 10$$

Can you write your own  
sharing story to match  
the calculation?

$$40 \div 10$$