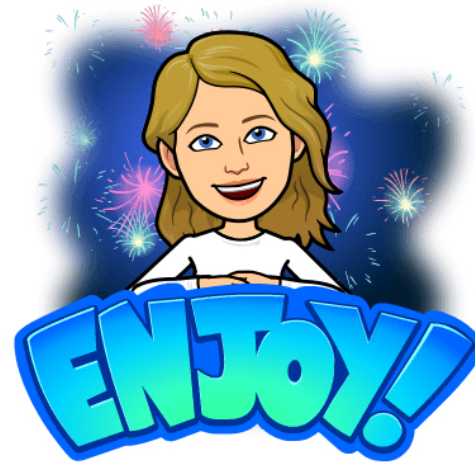


# WELCOME

to today's Maths lesson

29.01.21

Related division calculations



**29.01.21**

**Related division calculations**



Good morning, Year 3.  
Happy Friday!

In today's Maths lesson, we are going to be continuing with Multiplication and Division and looking at **related division calculations**.

Please watch the video of Miss Robertson talking you through today's lesson (link on the website).

If you have any questions or would like to send in any work, please email it to:

[yearthree@st-jo-st.dudley.sch.uk](mailto:yearthree@st-jo-st.dudley.sch.uk)

Well done everyone, you are all superstars ☺

Love

Miss Robertson xxxx



## Starter activities:

### Today's Tough Ten

1	$35 + 11 =$
2	$11 + 7 =$
3	$= 14 - 9$
4	$7 \times 10 =$
5	$= 41 - 9$
6	$41 + 29 =$
7	$14 \div 2 =$
8	$\frac{3}{4}$ of 16 =
9	$40 = 50 -$
10	$91 - 23 =$

17.					18.					19.					20.				
	7	1	9			5	9	5			2	6	7			6	0	6	
+	1	8	2		+	1	1	7		+	5	7	9		+	2	5	8	

### Deepen it:

Pick one question and write a number story for it.

Miss Robertson's example:

**Clemency bakes 41 cakes. She eats 9 with her family. How many are there left?**



To find  $\frac{3}{4}$  of something, divide the number by 4 and then multiply it by 3.

## Times table practise:

x	1	2	5
2	2	4	
3	3		
4			

x	2	3	6
4			
5			
10			

x	5	10	2
2			
4			
10			

x	10	4	1
5			
2			
6			



Remember, you can also logon to TTRS to practise too :D

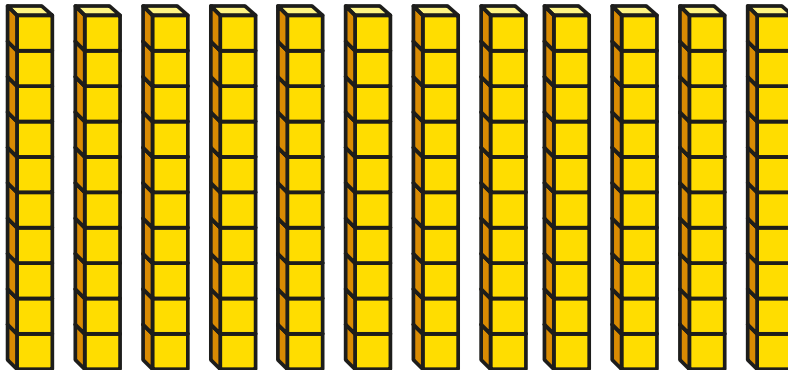




Today, we are going to use the division facts that we know to help us with some trickier ones.



$$12 \div 2 = \boxed{6}$$



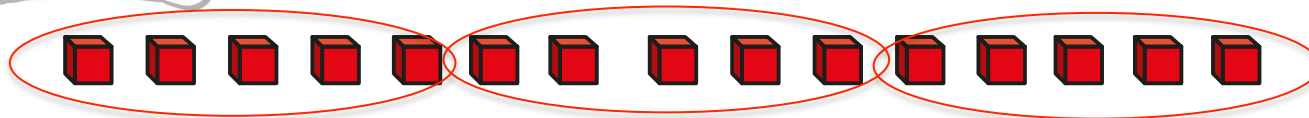
$$120 \div 2 = \boxed{60}$$



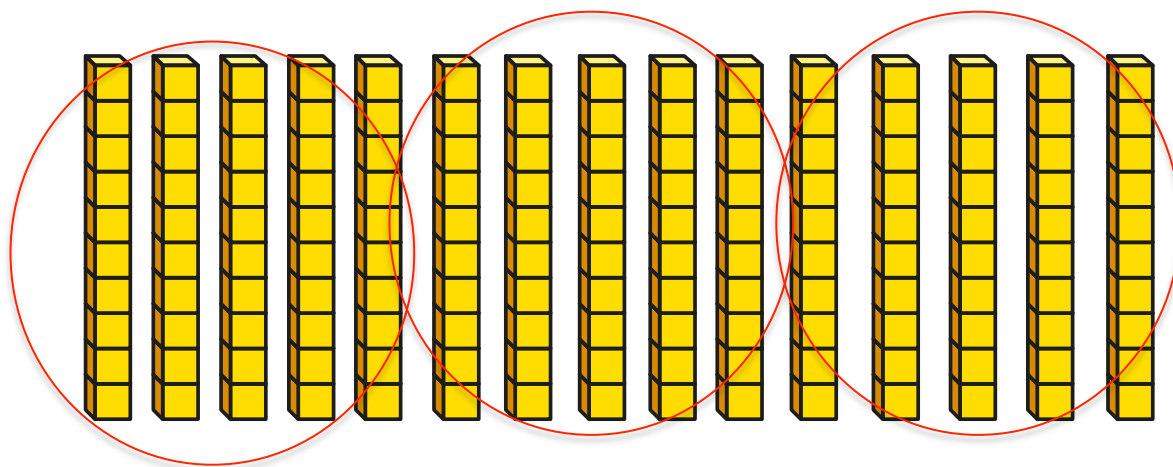
**120 is ten times bigger than 12.  
So to work out  $120 \div 2$ , we can do  $12 \div 2$  and then multiply  
our answer by 10 😊**



Today, we are going to use the division facts that we know to help us with some trickier ones.



$$15 \div 3 = 5$$



$$150 \div 3 = 50$$

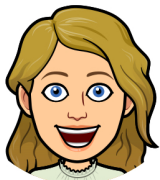


**150 is ten times bigger than 15.  
So to work out  $150 \div 3$ , we can do  $15 \div 3$  and then multiply  
our answer by 10 😊**



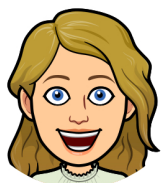
$$24 \div 3 = 8$$

$$240 \div 3 = \underline{\hspace{2cm}}$$



240 is 10 times bigger than 24. So, to work it out we can do  $24 \div 3$  and then multiply the answer by 10.

Remember, to multiply a number by 10, we move the digits 1 place to the left and add a place holder zero.



Hundreds	Tens	Ones
		8

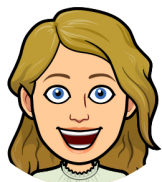


Hundreds	Tens	Ones
	8	0



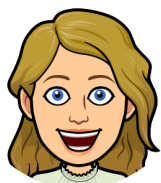
$$16 \div 4 = 4$$

$$160 \div 4 = \underline{\hspace{2cm}}$$



160 is 10 times bigger than 16. So, to work it out we can do  $16 \div 4$  and then multiply the answer by 10.

Remember, to multiply a number by 10, we move the digits 1 place to the left and add a place holder zero.



Hundreds	Tens	Ones
		4

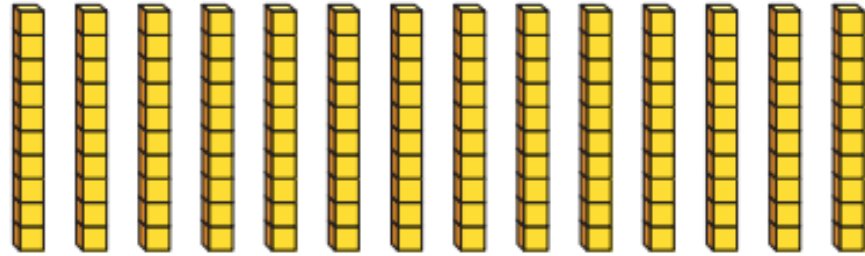


Hundreds	Tens	Ones
	4	0





Use these pieces of base 10 to complete the divisions.



$14 \div 2 = \square$

$140 \div 2 = \square$

1.  $27 \div 3 = \underline{\quad}$   
so  $270 \div 3 = \underline{\quad}$

2.  $33 \div 3 = \underline{\quad}$   
so  $330 \div 3 = \underline{\quad}$

3.  $18 \div 3 = \underline{\quad}$   
so  $180 \div 3 = \underline{\quad}$

4.  $21 \div 3 = \underline{\quad}$   
so  $210 \div 3 = \underline{\quad}$

5.  $12 \div 3 = \underline{\quad}$   
so  $120 \div 3 = \underline{\quad}$

6.  $24 \div 3 = \underline{\quad}$   
so  $240 \div 3 = \underline{\quad}$

Remember:

Do the division fact that you know first and then multiply your answer by 10 😊



1.  $240 \div 2 = \underline{\quad}$

2.  $450 \div 5 = \underline{\quad}$

3.  $150 \div 3 = \underline{\quad}$

4.  $220 \div 2 = \underline{\quad}$

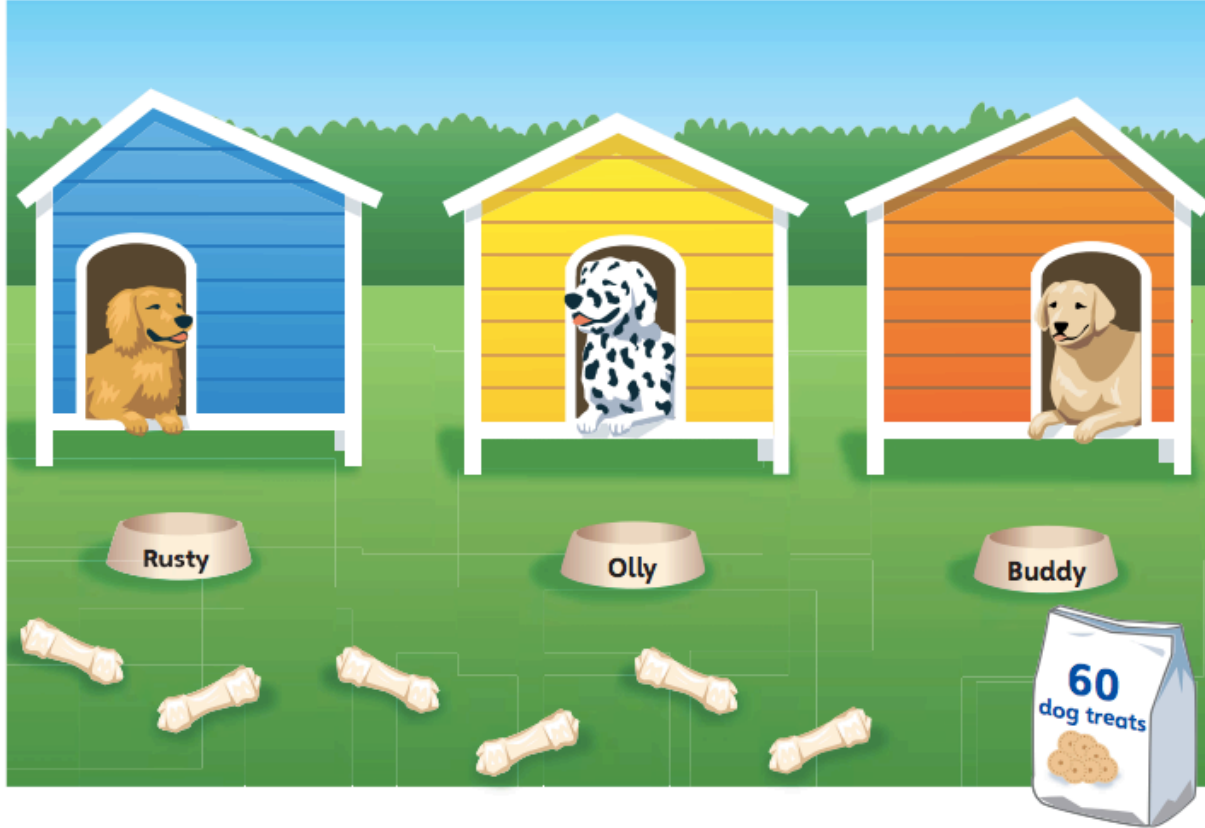
5.  $90 \div 3 = \underline{\quad}$

6.  $140 \div 2 = \underline{\quad}$

7.  $250 \div 5 = \underline{\quad}$

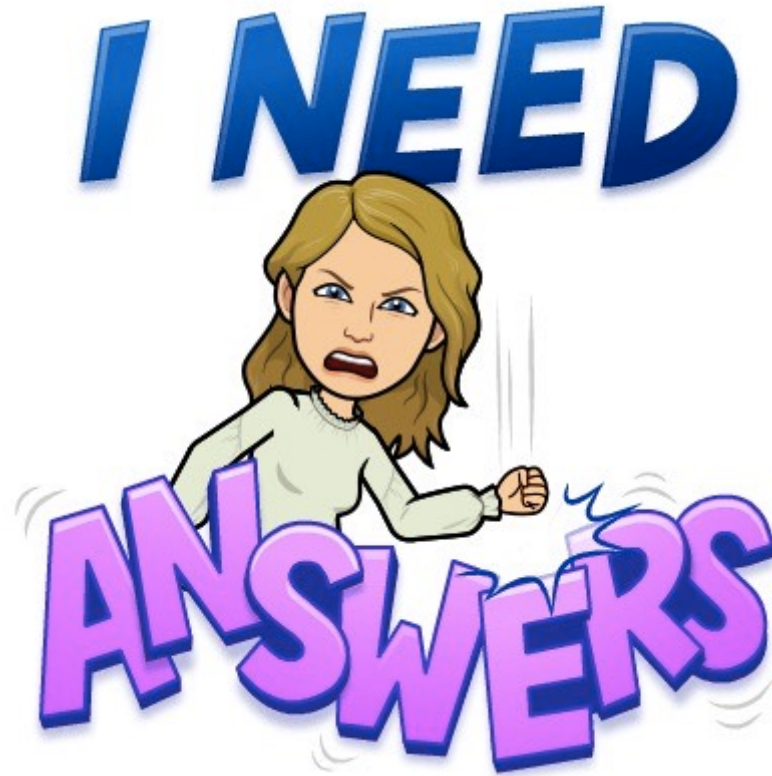
8.  $400 \div 5 = \underline{\quad}$

## Deepen it:

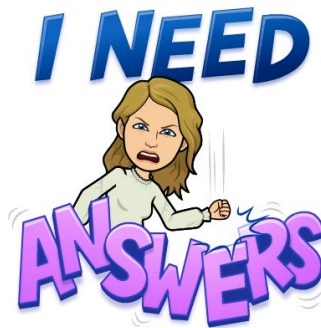


Mr Carry has £360 he shares it equally between 3 people. How much does each person get?

- I** a) The bones are shared equally between the dogs.  
How many bones will each dog get?
- b) The dog treats are shared equally between the dogs.  
How many dog treats will each dog get?



**Answers are coming up on the next slide.  
No peeking until you have completed the  
questions 😊**



1.  $27 \div 3 = 9$   
so  $270 \div 3 = 90$

2.  $33 \div 3 = 11$   
so  $330 \div 3 = 110$

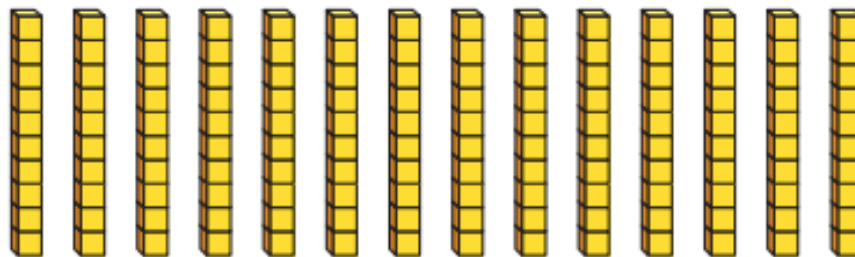
3.  $18 \div 3 = 6$   
so  $180 \div 3 = 60$

4.  $21 \div 3 = 7$   
so  $210 \div 3 = 70$

5.  $12 \div 3 = 4$   
so  $120 \div 3 = 40$

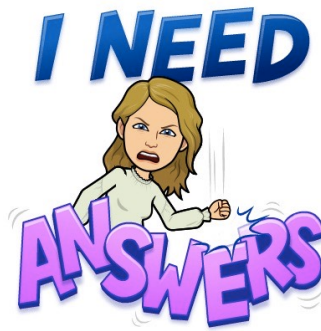
6.  $24 \div 3 = 8$   
so  $240 \div 3 = 80$

Use these pieces of base 10 to complete the divisions.



$$14 \div 2 = \boxed{7}$$

$$140 \div 2 = \boxed{70}$$



1.  $240 \div 2 = 120$

2.  $450 \div 5 = 90$

3.  $150 \div 3 = 50$

4.  $220 \div 2 = 110$

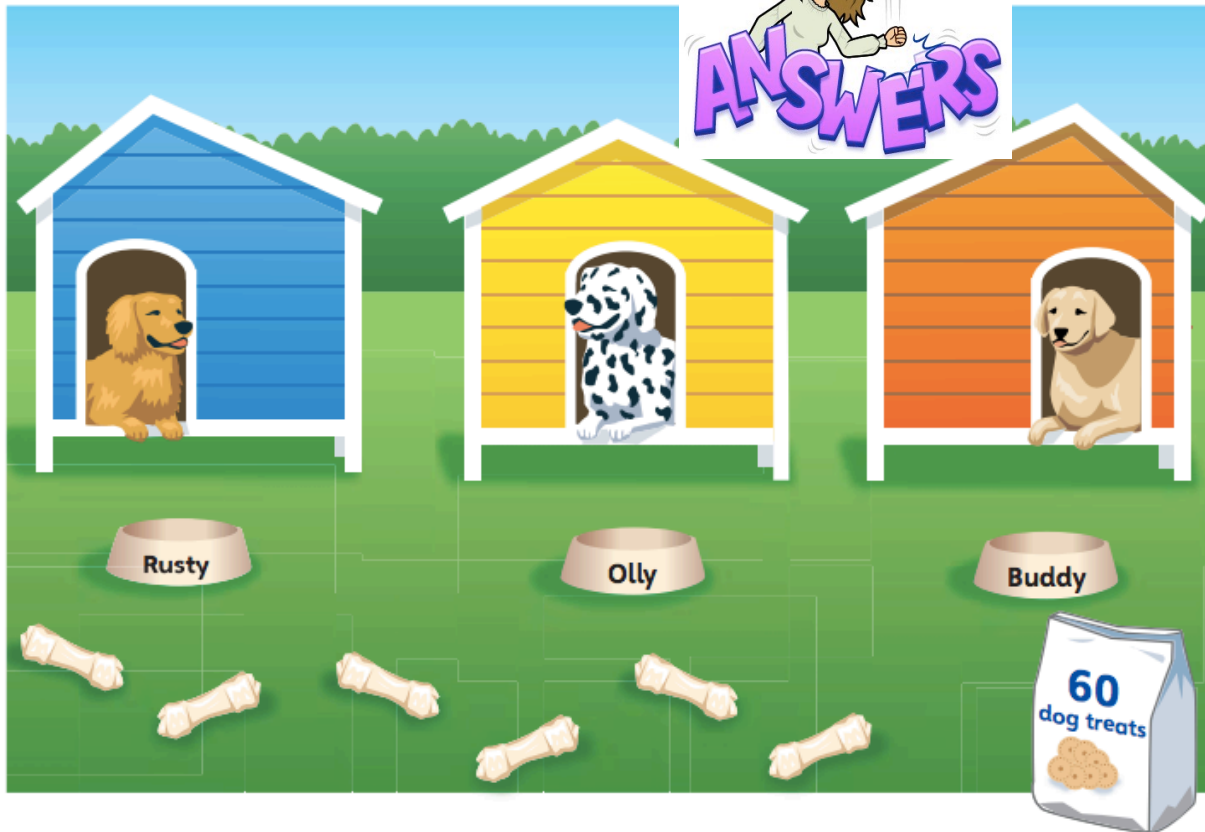
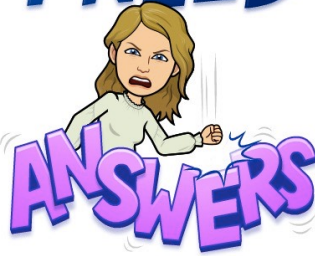
5.  $90 \div 3 = 30$

6.  $140 \div 2 = 70$

7.  $250 \div 5 = 50$

8.  $400 \div 5 = 80$

**I NEED**



Mr Carry has £360  
he shares it  
equally between  
3 people. How  
much does each  
person get?

**£120**

- 1** a) The bones are shared equally between the dogs.  
How many bones will each dog get? **2**
- b) The dog treats are shared equally between the dogs.  
How many dog treats will each dog get? **20**

Thank you for working so hard.

Please send in any photos of your work or any questions you have to [yearthree@st-jo-st.dudley.sch.uk](mailto:yearthree@st-jo-st.dudley.sch.uk)

It is always a pleasure to see all of your work.

