

Monday - Arithmetic

Dividing by 1 digit numbers

H T O

Remember our place
value columns...

What does each
column represent?

Dividing by 1 digit numbers

H	T	O
2	7	5

What does the 2
represent?

Dividing by 1 digit numbers

H T O

2 7 5

What does the 2 represent?

2 hundreds or 200

Dividing by 1 digit numbers

H	T	O
2	7	5

What does the 7
represent?

Dividing by 1 digit numbers

H	T	O
2	7	5

What does the 7 represent?

7 tens or 70

Dividing by 1 digit numbers

H	T	O
2	7	5

What does the 5
represent?

Dividing by 1 digit numbers

H	T	O
2	7	5

What does the 5 represent?

5 ones or 5

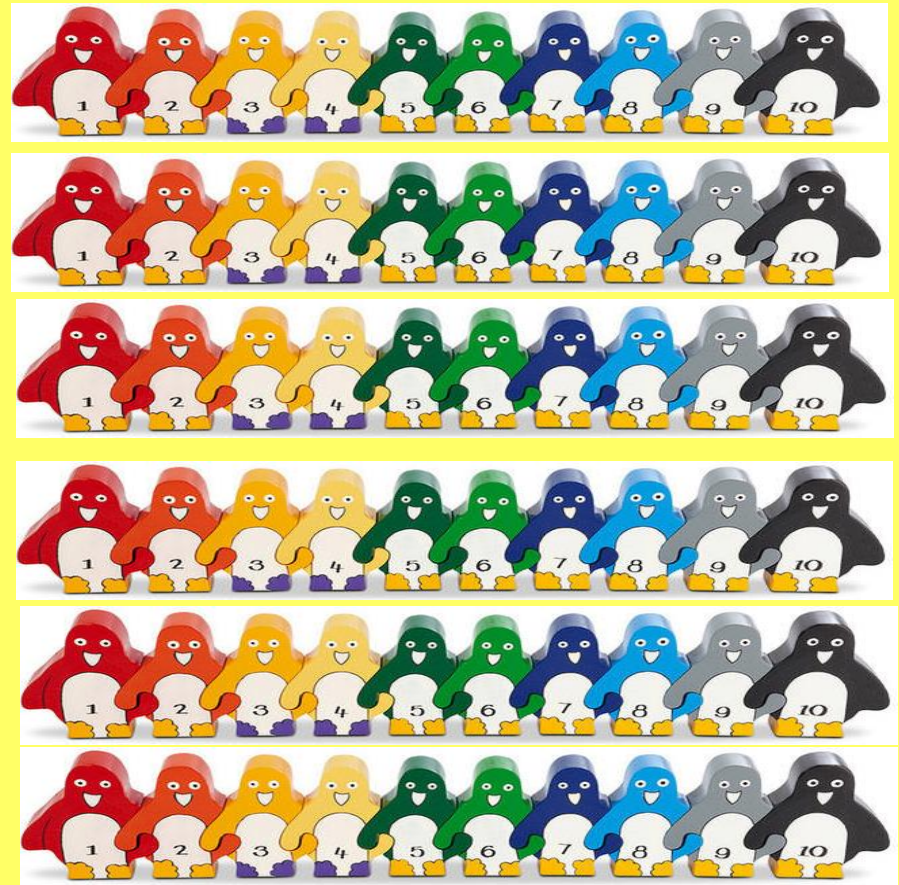
Dividing means sharing

If you divide one number into another it is like asking how many groups you have.

For example:

$$60 \div 10 =$$

You are looking at how many groups of 10 you can make from 60.



This shows 6 rows of 10 which in total adds up to 60

$$60 \div 10 = 6$$

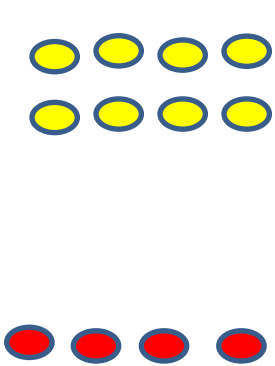
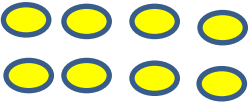

Dividing by 1 digit numbers

$$84 \div 4 =$$

Today, we will be using the grid below to support us.

First of all build your number in step 1.

E.G 84 has 8 tens (so we'll draw 8 yellow dots) and 4 ones (so we'll draw 4 red dots)

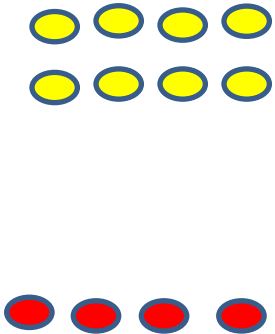













<u>Step 1</u> Build the Number	<u>Step 2</u> Share the tens	<u>Step 3</u> Share the ones																				
	 <table border="1"><thead><tr><th>I</th><th>Q</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>	I	Q									 <table border="1"><thead><tr><th>I</th><th>Q</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>	I	Q								
I	Q																					
I	Q																					

Dividing by 1 digit numbers

$$84 \div 4 =$$

Next, we will divide our tens into the 4 rows below, one at a time.

There are 2 tens in each row, so $80 \div 4 = 20$.

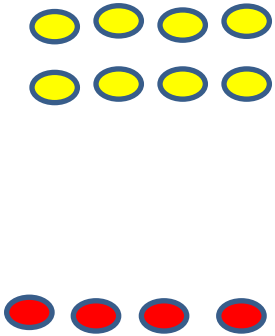
























<u>Step 1</u> Build the Number	<u>Step 2</u> Share the tens	<u>Step 3</u> Share the ones																				
	<table border="1"><thead><tr><th>I</th><th>Q</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>	I	Q									 <table border="1"><thead><tr><th>I</th><th>Q</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>	I	Q								
I	Q																					
																						
																						
																						
																						
I	Q																					

Dividing by 1 digit numbers

$$84 \div 4 =$$

Finally, we will divide our ones into the 4 rows below, one at a time.

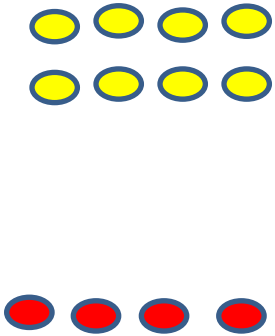




























There is 1 one token in each row, so $4 \div 4 = 1$.

<u>Step 1</u> Build the Number	<u>Step 2</u> Share the tens	<u>Step 3</u> Share the ones																				
	<table border="1"><thead><tr><th>I</th><th>Q</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>	I	Q									<table border="1"><thead><tr><th>I</th><th>Q</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>	I	Q								
I	Q																					
																						
																						
																						
																						
I	Q																					
																						
																						
																						
																						

Dividing by 1 digit numbers

$$84 \div 4 = 21$$

Your final answer is the amount in one row, so 2 tens and 1 one will equal 21.

<u>Step 1</u> Build the Number	<u>Step 2</u> Share the tens	<u>Step 3</u> Share the ones																				
	<table border="1"><thead><tr><th>I</th><th>O</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>	I	O									<table border="1"><thead><tr><th>I</th><th>O</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table> 	I	O								
I	O																					
																						
																						
																						
																						
I	O																					
																						
																						
																						
																						

Dividing by 1 digit numbers

$84 \div 4$

4 is the divisor – how many 4s share into 84?

<u>Step 1</u> Build the Number	<u>Step 2</u> Share the tens	<u>Step 3</u> Share the ones																				
	<table border="1"><thead><tr><th>I</th><th>Q</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>	I	Q									<table border="1"><thead><tr><th>I</th><th>Q</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>	I	Q								
I	Q																					
I	Q																					

Dividing by 1 digit numbers

$42 \div 2$

2 is the divisor – **how many 2s share into 42?**

<u>Step 1</u> Build the Number	<u>Step 2</u> Share the tens	<u>Step 3</u> Share the ones				
			I	Q	I	Q

Now it is your turn to work out some calculations where you divide by 1 digit

1. $72 \div 2$

2. $72 \div 3$

3. $56 \div 4$

4. $96 \div 3$

5. $54 \div 3$

6. $55 \div 5$

7. $84 \div 6$

8. $91 \div 7$

9. $85 \div 5$

10. $48 \div 8$

11. $63 \div 7$

12. $96 \div 8$

You can use the division support table document to help you to work these out – this has been uploaded along with the slides. Alternatively, you can draw the table and counters in your book. 😊

Answers

1. $72 \div 2 = 36$

2. $72 \div 3 = 24$

3. $56 \div 4 = 14$

4. $96 \div 3 = 32$

5. $54 \div 3 = 18$

6. $55 \div 5 = 11$

7. $84 \div 6 = 14$

8. $91 \div 7 = 13$

9. $85 \div 5 = 17$

10. $48 \div 8 = 6$

11. $63 \div 7 = 9$

12. $96 \div 8 = 12$