



Drake Class
Year 5 Maths Home Learning Activities
Week beginning Monday 29/06/20



Division

We have covered division before – earlier in the year – but, again, I thought that it would be useful to revisit some of the strategies we use to calculate answers.

Multiplication tables are extremely useful for division so keep practising them.

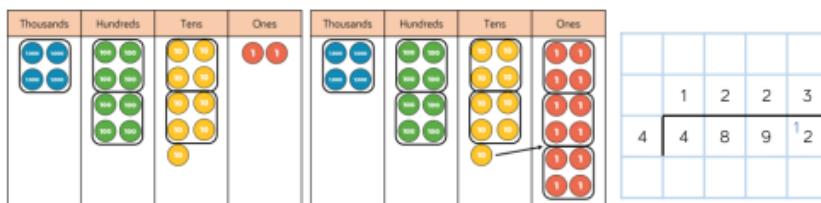
<https://www.topmarks.co.uk/maths-games/hit-the-button>

I will add a video talking through the steps of how to complete short and long division. If you need any more help, please put a comment into Seesaw and I can respond to you individually.

Alternatively there is also this one: <https://www.khanacademy.org/math/arithmetic-home/multiply-divide/multi-digit-div-2/v/division-2> which shows the step between short and long division – dividing by a single digit but in a 'long' style.

Step 1:

Here is a method to calculate 4,892 divided by 4 using place value counters and short division.



Use this method to calculate:

$$6,610 \div 5$$

$$2,472 \div 3$$

$$9,360 \div 4$$

Mr Porter has saved £8,934

He shares it equally between his three grandchildren.

How much do they each receive?

Use $<$, $>$ or $=$ to make the statements correct.

$$3,495 \div 5$$



$$3,495 \div 3$$

$$8,064 \div 7$$



$$9,198 \div 7$$

$$7,428 \div 4$$



$$5,685 \div 5$$

Step 2: Short Division Fluency:

Complete the following:

1. $472 \div 4 =$

2. $968 \div 8 =$

3. $904 \div 2 =$

4. $765 \div 5 =$

5. $895 \div 5 =$

6. $8,792 \div 7 =$

7. $9,180 \div 6 =$

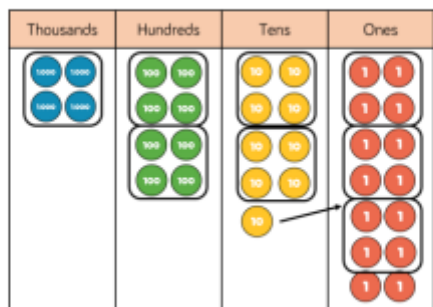
8. $11,562 \div 3 =$

9. $32,832 \div 9 =$

10. $28,480 \div 8 =$

Step 3: Short Division:

Here is a method to solve 4,894 divided by 4 using place value counters and short division.



		1	2	2	3	
4	4	8	9	4		r2

Use this method to calculate:

$$6,613 \div 5$$

$$2,471 \div 3$$

$$9,363 \div 4$$

Muffins are packed in trays of 6 in a factory.

In one day, the factory makes 5,623 muffins.

How many trays do they need?

How many trays will be full?

Why are your answers different?

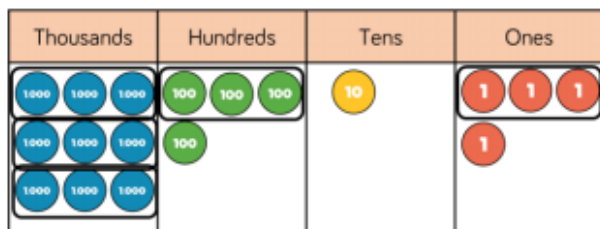
For the calculation $8,035 \div 4$

- Write a number story where you round the remainder up.
- Write a number story where you round the remainder down.
- Write a number story where you have to find the remainder.

Step 4: Reasoning with Division:

Spot the Mistake

Explain and correct the working.



		3	1	0	1
3	9	4	1	4	

Always, Sometimes, Never?

A three-digit number made of consecutive descending digits divided by the next descending digit always has a remainder of 1

$$765 \div 4 = 191 \text{ remainder } 1$$

How many possible examples can you find?

Jack is calculating $2,240 \div 7$

He says you can't do it because 7 is larger than all of the digits in the number.

Do you agree with Jack?
Explain your answer.

I am thinking of a 3-digit number.

When it is divided by 9, the remainder is 3

When it is divided by 2, the remainder is 1

When it is divided by 5, the remainder is 4

What is my number?

