

25.3.20

LO: To divide with remainders

Using your knowledge of short division (bus stop method) from yesterday's work, today you will be dividing numbers up to 4-digits by 1-digit and giving a whole number answer and remainder.

Below is a reminder of dividing with a remainder and there is also a link on the home learning page for today, which will take you to a video explaining simple dividing with a remainder.

Short Division

		3	8
4	1	¹ 5	³ 2

15 ÷ 4 = 3 remainder 3
Remember to regroup any remainders and move them into the next column.

	4	5	5	r	3
5	2	2	² 7	² 8	

28 ÷ 5 = 5 remainder 3
If your calculation has a remainder, remember to record it in the answer using the letter **r**.

1. Match each of the division questions with its place value representation and short division calculation. Then, work out the missing digits in calculation c.

A $3674 \div 3 = 1224r2$ ___ and ___

B $7209 \div 6 = 1201r3$ ___ and ___

C

6	7	2	0	9	

D

	1	2	2	4	r2
3	3	6	7	¹ 4	

E

Th	H	T	O
1000 1000	100 100		1 1
1000 1000	100 100		1 1
1000 1000	100 100		1 1
1000	100 100		1 1
	100 100		1
	100 100		
	100 100		

F

Th	H	T	O
1000 1000	100 100	10 10	1 1
1000	100 100	10 10	1 1
	100 100	10 10	1 1
		10	1 1
			1 1
			1 1
			1 1

2. Muffins are packed in trays of 4 in a factory.

In one day, the factory makes 2459 muffins.

- a) How many trays do they need?
- b) How many trays will be full?
- c) Why are your answers different?

3. For the calculation $2471 \div 3$

- a) Write a number story where you round the remainder up
- b) Write a number story where you round the remainder down

4. Choose a divisor and dividend from the table below and write the number sentence you have created. Predict whether your answer will have a remainder or not.

Can you explain the reason for your prediction?

Carry out a short division to check your prediction.

Repeat a further 2 times, at least.

Divisor	Dividend
3	1440
4	2606
5	3750
6	4203
	7925
	9324