Sometimes, a dividend (the number you are dividing) cannot be divided exactly by the divisor (the number you are dividing by) and you are left with a remainder.

There are 3 main ways of dealing with a remainder; we are going to look at two of them today.

1. Giving the remainder as a whole number
2. Giving the remainder as a fraction

Can I find remainders in division problems?

**Marvellous and Magnificent**

Give any remainders as both a whole number AND a fraction!

1. 644 ÷ 3
2. 741 ÷ 5
3. 1557 ÷ 7
4. 886 ÷ 6

**Mind-blowing**

1. 3227 ÷ 9
2. 4738 ÷ 11
3. 4669 ÷ 12
4. 1939 ÷13

**Answers**

Fluent in Five: 1) 21 2) 23 3) 417 4) 8982 5) 182

Marvellous

and Magnificent: 1) 214 r2 214 and 2/4 2) 148 r1 148 and 1/5 3) 222 r3 222 and 4) 147 r4 147 and 4/6

Mind-blowing: 1) 358 r5 358 and 5/9 2) 430 r8 430 and 8/11 3) 389 r1 389 and 1/12 4) 149 r2 149 and 2/13

**Remainder as a whole number**

**Step one:**

Set out your division in the formal method. Place the dividend (number you are dividing) inside the ‘bus stop’ and the divisor (number you are dividing by) on the outside.

**Step two:**

Starting from the left, see how many times the divisor will go into each digit of the dividend. Any remainders move onto the next digit.

**Step three:**

When you reach the last digit, any remainders are written as a number after an ‘r’.

**Remainder as a fraction**

Set out your division following steps one and two as before. Then:

**Step three:**

When you get to the last digit, the remainder is used as the numerator (top number) of the fraction and the divisor is used as the denominator (bottom number).

4 3 6

3

1 4 5 and 1/3 1 1/311//1/3

4 3 6

3

1 4 5 r 1

4 3 6

3

1

1

1 4 5

6

4

3

3