Guide to: Division

maths Links

Explanation:

Use the short division ("bus stop") method to divide by a whole number. Work from left to right, dividing each digit by the divisor and carrying any remainder onto the next digit. If there is a remainder at the end, add a decimal point and trailing zeros (`.00`) to continue dividing.

When dividing by a decimal, never put a decimal outside the bus stop. Write the division as a fraction and multiply both numbers by 10, 100, or 1000 until the divisor is a whole number, then divide as normal.

Example 1: Work out 4536 ÷ 7

Solution:

Set up the bus stop: **7) 4 $^{4}5$ $^{3}3$ $^{5}6$**

- 7 into 4 = **0** remainder 4 (carry 4 to make 45)
- 7 into 45 = **6** remainder 3 (carry 3 to make 33)
- 7 into 33 = **4** remainder 5 (carry 5 to make 56)
- 7 into 56 = **8** remainder 0

Answer: 648

Example 2: Work out 14.4 ÷ 0.06

Solution:

Write as a fraction and multiply top & bottom by **100**:

$$\frac{14.4}{0.06} \times \frac{100}{100} = \frac{1440}{6}$$

Now divide 1440 by 6 using the bus stop:

- 14 ÷ 6 = **2** r 2; 24 ÷ 6 = **4**; 0 ÷ 6 = **0**

Answer: 240

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