Dividing decimal numbers

The Division module has factsheets showing **different written division methods.** You may need to revise the method you use. Here are examples of division of a whole number by a single digit:

Example 1: there are 3724 boxes in a warehouse. They are packed in stacks of 7. How many stacks will there be?

3724 ÷ 7



Example 2: in a café, the bill comes to £37.24. This amount is shared equally between 7 people. How much will each person have to pay?

37.24 ÷ 7

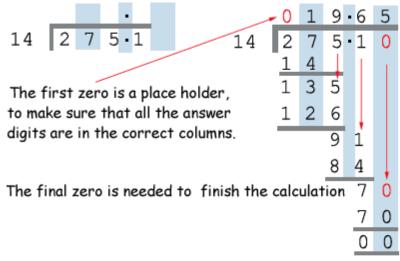
To divide a number that includes a decimal fraction:

- put a decimal point on the answer line at the end of the units column
- carry out the division in the usual way

7 3 7 2 4 7 3 7
$$\cdot$$
 2 4 7 3 7 \cdot 2 \cdot 4 The answer is 37.24 \div 7 = 5.32

The same applies to 'long division':

Example 3: 275.1 ÷ 14



275 ÷ 14 = 19.65

estimate and check your answer. 280 ÷ 14 = 20, so it's about the right size.