

1. Here is the list of ingredients for making 4 bean burgers.

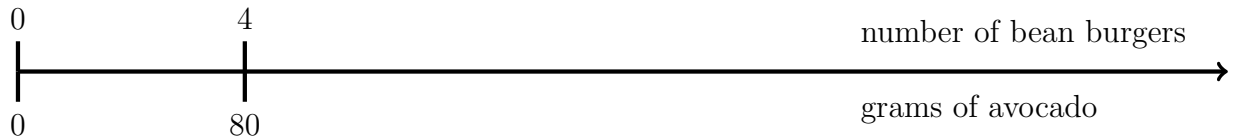
Bean Burgers
 Ingredients to make 4 burgers

80 g of avocado
 100 g of oats
 60 g of water
 200 g of cannellini beans
 40 g of pickled beetroot

Emilia wants to make 8 bean burgers

Work out how many grams of avocado she should use.

You may use this proportional pairs line.



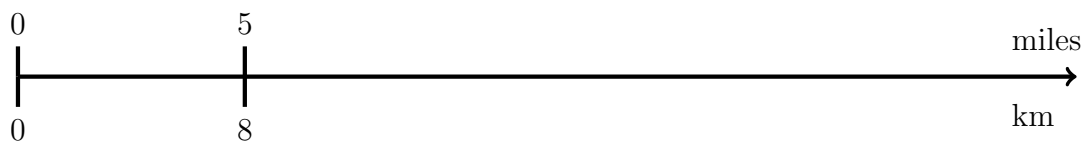
..... grams

2. A train travels 50 miles between two stations.

What is the distance between these stations in kilometres?

Use 8 kilometres equals 5 miles.

You may use this proportional line.



..... km

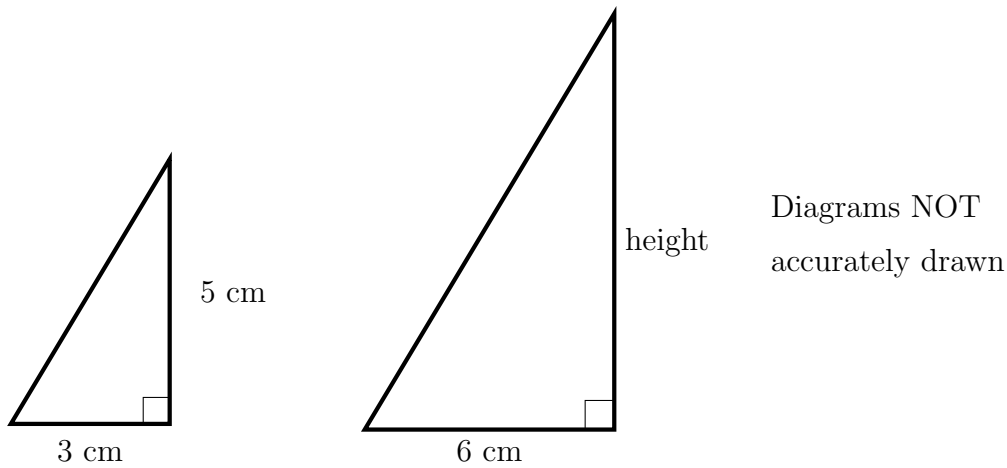
3. Make these equivalent fractions correct.

Hint: work out the easiest scale factor.

$$\begin{array}{c} \times \dots \\ \curvearrowright \\ \times \dots \left(\frac{3}{4} = \frac{6}{\square} \right) \end{array}$$

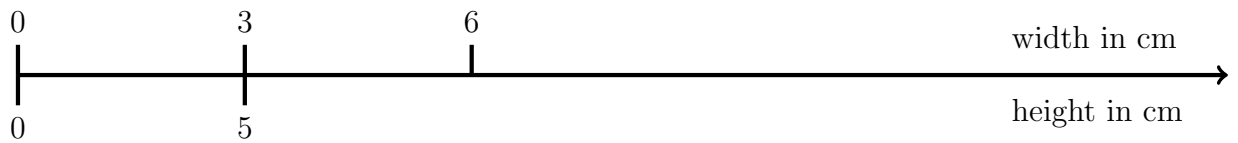
Turn over for more questions and answers.

4. Here are two similar right-angled triangles. {F.Y.I. the length of their sides are proportional, so they look the same as each other but as if they were further away or closer.}



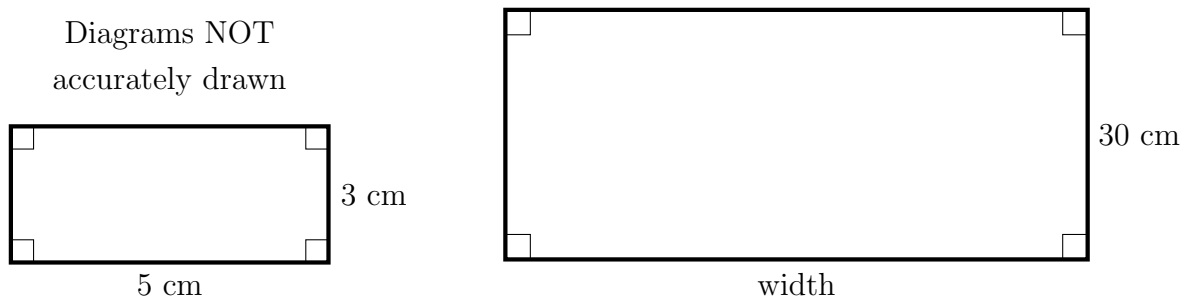
Work out the height, in centimetres, of the larger triangle.

You may use this proportional line.



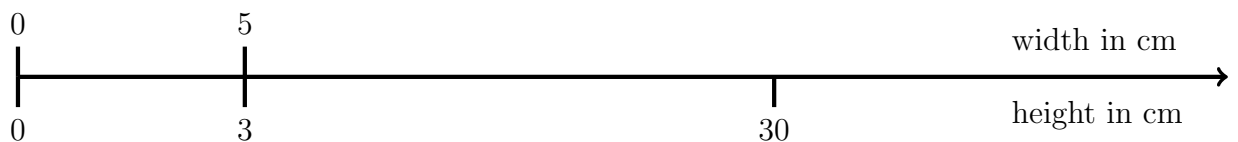
..... cm

5. Here are two similar rectangles. {F.Y.I. the length of their sides are proportional, so they look the same as each other but as if they were further away or closer.}



Work out the width, in centimetres, of the larger rectangle.

You may use this proportional line.



..... cm

Answers: Q1: 160 Q2: 80 Q3: 8 Q4: 10 Q5: 50