

9-1 Crossover Problem: Functional Area

Step 1

Convert all the units below:

Convert into metres:

- 1) 540cm
- 2) 345cm
- 3) 270cm
- 4) 80cm
- 5) 180cm

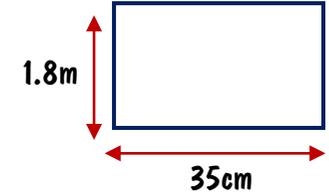
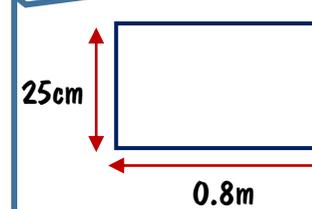
Convert into centimetres:

- 1) 0.94m
- 2) 1.6m
- 3) 1.8m
- 4) 0.7m
- 5) 0.26m



Work out the area of the following shapes in both metres and centimetres

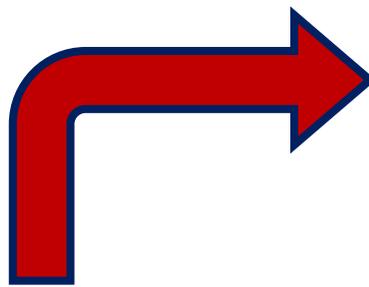
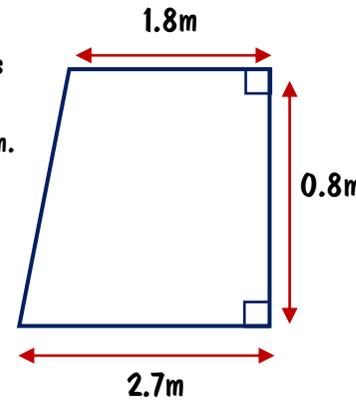
Step 2



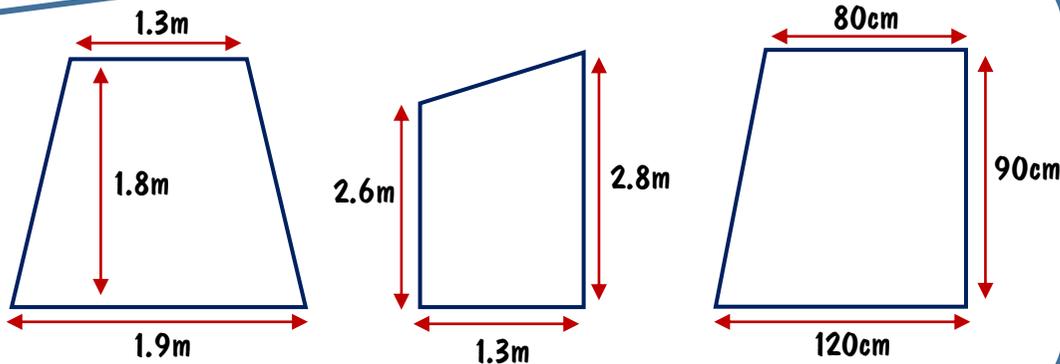
A rectangular tile with a width of 7.5cm and a length of 15cm

Step 4

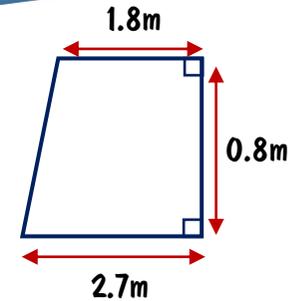
The diagram shows part of a wall that is going to be covered with tiles. Each rectangular tile is 15 cm by 7.5 cm. There are 9 tiles in each pack. A decorator divides the area of the wall by the area of a tile to work out an estimate for the number of tiles they need to buy. How many packs of tiles are needed?



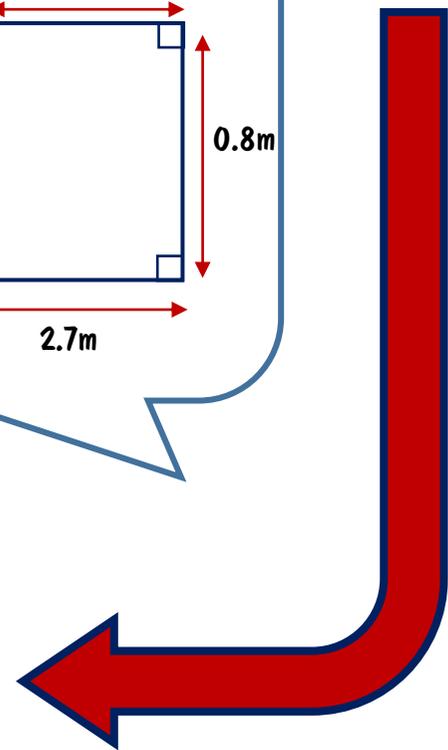
Step 3



Extension



The decorator in step 4 is advised to buy 10% more tiles than estimated. They assume they will need to buy 10% more packs of tiles. Is this assumption correct? You must show your working.



Calculate the area of each trapezium in both metres and centimetres

