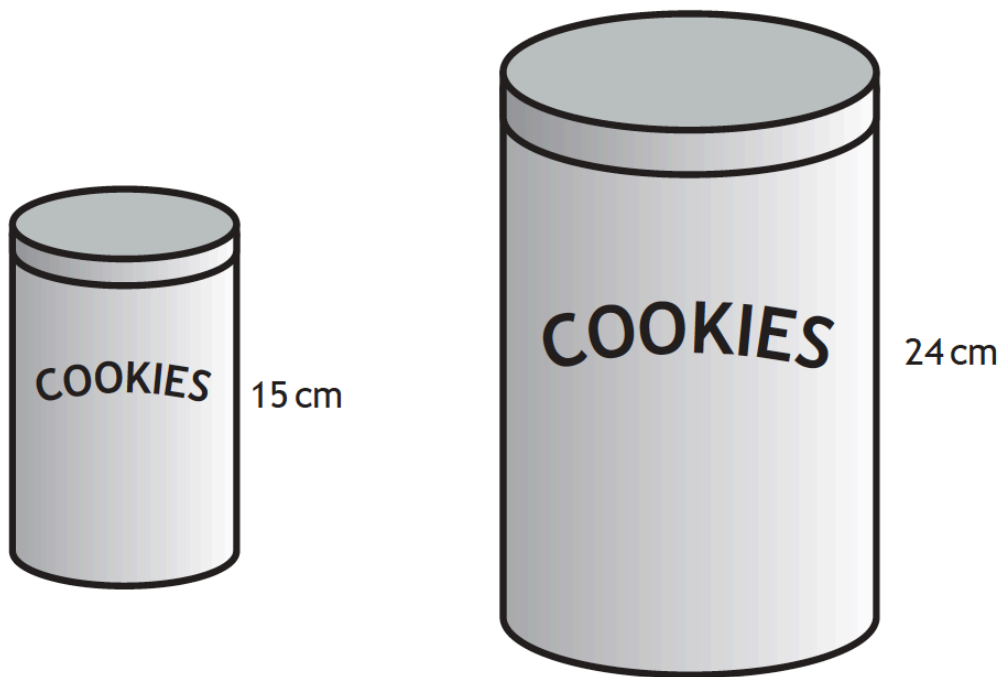


Marks are indicated in brackets after each question number

2014 Paper 2 Question 5, (3)

A supermarket sells cylindrical cookie jars which are mathematically similar.



The smaller jar has a height of 15 centimetres and a volume of 750 cubic centimetres.

The larger jar has a height of 24 centimetres.

Calculate the volume of the larger jar.

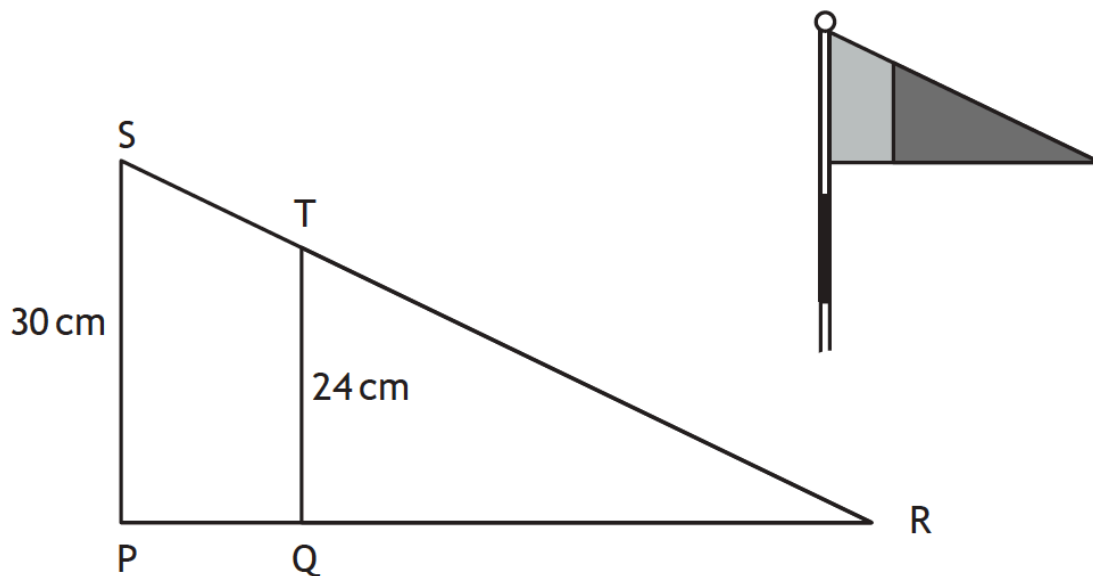
2015 Paper 2 Question 9, (4)

The flag at each hole on a golf course is coloured red and blue.

The diagram below represents a flag.

Triangle QRT represents the red section.

PQTS represents the blue section.



Triangles PRS and QRT are mathematically similar.

The area of triangle QRT is 400 square centimetres.

Calculate the area of PQTS, the blue section of the flag.

2016 Paper 2 Question 11, (3)

Two pictures are mathematically similar in shape.



100 cm



60 cm

The cost of each picture is proportional to its area.

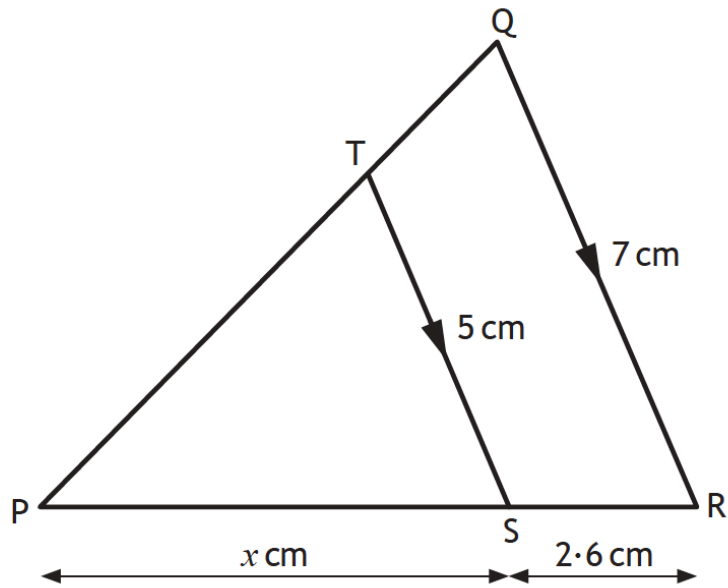
The large picture costs £13.75.

Find the cost of the small picture.

2017 Paper 1 Question 15, (3)

In the diagram below:

- TS is parallel to QR
- $TS = 5$ centimetres
- $QR = 7$ centimetres
- $SR = 2.6$ centimetres



The length of PS is x centimetres.

Calculate the value of x .