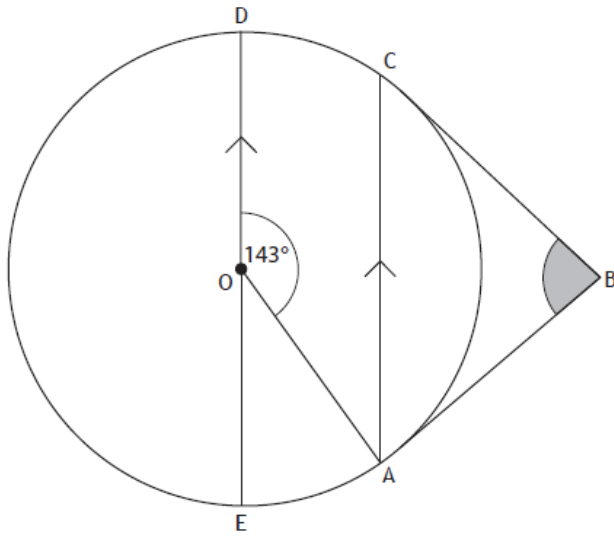


RELATIONSHIPS HOMEWORK 10

Non calculator:

The diagram below shows a circle, centre O.



- AB and CB are tangents to the circle.
- AC and ED are parallel.
- Angle AOD is 143° .

Calculate the size of angle ABC.

3

Calculator

Two pictures are mathematically similar in shape.



100 cm



60 cm

The cost of each picture is proportional to its area.

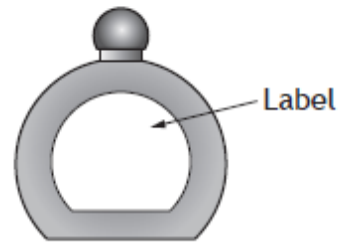
The large picture costs £13.75.

Find the cost of the small picture.

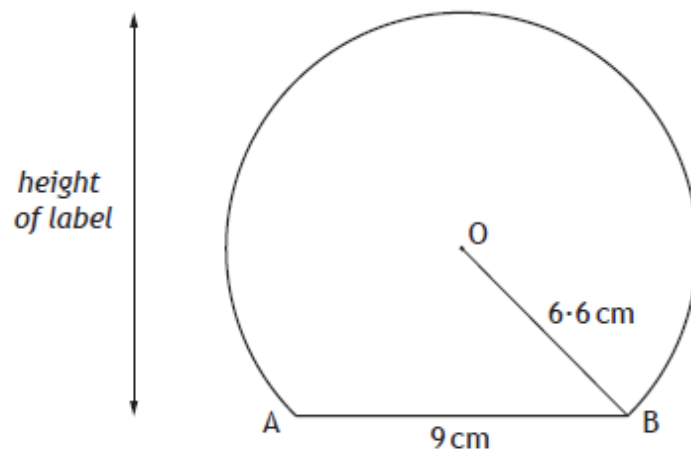
3

Challenge Question (Calculator)

This perfume bottle has a label in the shape of part of a circle.



A diagram of the label is shown below.



- The centre of the circle is O .
- The chord AB is 9 centimetres.
- The radius OB is 6.6 centimetres.

Find the height of the label.