Similar Shapes

N5 Relationships HW

Unit level:





0.6 square centimetres. The height of the larger bead is 4 cm. Find the area of the larger bead.

Assessment level:

0.8 cm

4. Shampoo is available in travel size and salon size bottles. The bottles are mathematically similar.

4 cm

The travel size contains 200 millilitres and is 12 cm in height.

The salon size contains 1600 millilitres.

Calculate the height of the salon size bottle.





travel

salon

5. Two rectangular solar panels, A and B, are mathematically similar.

Panel A has a diagonal of 90cm and an area of 4020 square centimetres.



A salesperson claims that panel B, with a diagonal of 125cm, will be double the area of Panel A.

Is this claim justified? Show all your working.

6. In the triangle shown on the right, calculate the length of y.



7. Two pictures are mathematically similar in shape.



The cost of each picture is proportional to its area.

The large picture costs £13.75.

Find the cost of the small picture.

