IGCSE – Similar length/area and volume -2

Oct 03 Paper 2

13

8 cm

11 cm

4 cm

l cm
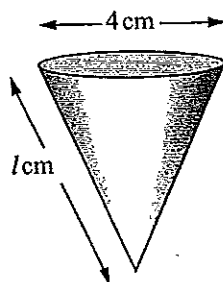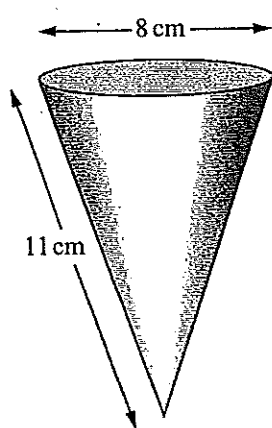
NOT TO
SCALE

The two cones are similar.

(a) Write down the value of *l*.

Answer (a) *l* = ... [1]
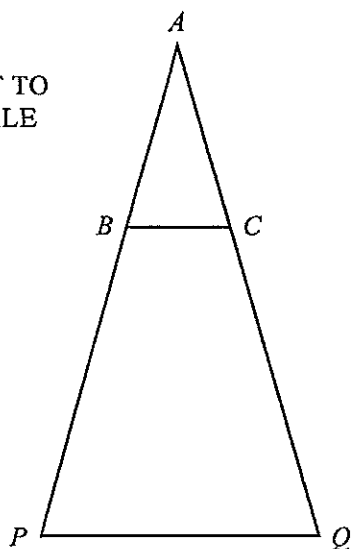
(b) When full, the larger cone contains 172 cm³ of water.
How much water does the smaller cone contain when it is full?

Answer (b) .... cm³ [2]

May 04 Paper 2

15

NOT TO
SCALE

A

B   *C*

P   *Q*

The area of triangle *APQ* is 99 cm² and the area of triangle *ABC* is 11 cm². *BC* is parallel to *PQ* and the length of *PQ* is 12 cm.

Calculate the length of *BC*.

Answer BC = ... cm [3]