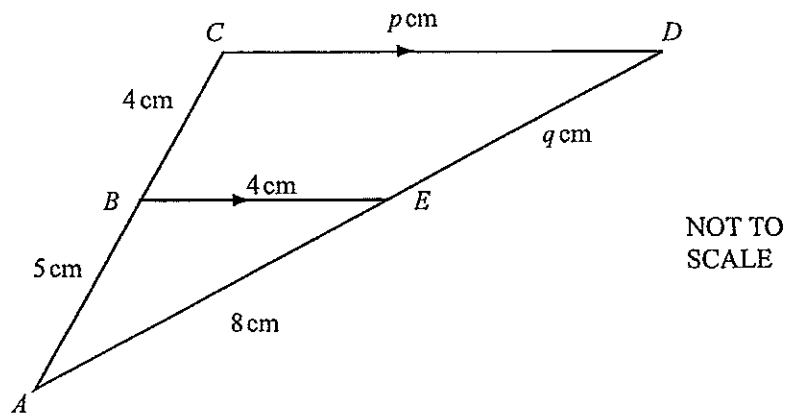


IGCSE – Similar length/area and volume -1

May 06 Paper 2

10

22 (a)



In the diagram triangles ABE and ACD are similar.

BE is parallel to CD .

$AB = 5$ cm, $BC = 4$ cm, $BE = 4$ cm, $AE = 8$ cm, $CD = p$ cm and $DE = q$ cm.

Work out the values of p and q .

Answer(a) $p = \dots\dots\dots$

$q = \dots\dots\dots$ [4]

May 06 Paper 2

22 (b) A spherical balloon of radius 3 metres has a volume of 36π cubic metres.

It is further inflated until its radius is 12 m.

Calculate its new volume, leaving your answer in terms of π .

Answer(b) $\dots\dots\dots$ m^3 [2]