

3rd December



Corbettmaths

Give an example of a "continuous variable"

height

time taken

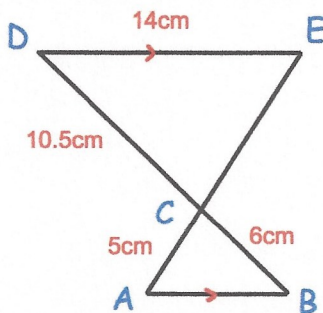
A solid cube of side length 4cm, is made from a material with density  $1.7\text{g/cm}^3$

$$V = 4 \times 4 \times 4 = 64\text{cm}^3$$

Calculate the mass of the cube.

$$m = d \times V$$

$$1.7 \times 64 = 108.8\text{g}$$



ACE and BCD are straight lines.

DE is parallel to AB.

Work out the size of CE.

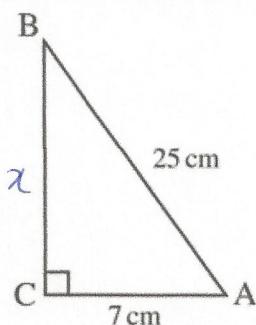
$$10.5 \div 6 = 1.75$$

$$5 \times 1.75 = 8.75$$

Solve  $x^2 - 5x + 4 = 0$

$$(x-4)(x-1) = 0$$

$$x = 4 \text{ or } x = 1$$



Calculate the length of BC

$$x^2 + 7^2 = 25^2$$

$$x^2 + 49 = 625$$

$$x^2 = 576$$

$$x = 24\text{cm}$$