

Calculate the volume.
Give your answer in terms of π

$$\pi \times 7^2 \times 4$$

$$= 196\pi \text{ cm}^3$$

Expand and simplify $6(w + 3) - 2(w - 5)$

$$6w + 18 - 2w - 10$$

$$= 4w + 8$$

Can you spot any mistakes?

$$-2 \times -5 = +10$$

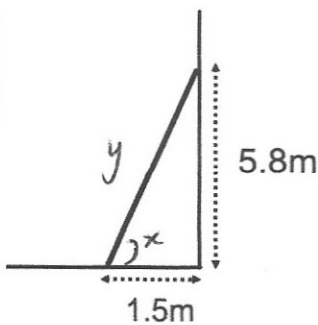
not -10

Final answer $4w + 28$

Calculate the density of a piece of wood with a mass of 80g and a volume of 90cm^3

$$d = \frac{m}{v}$$

$$\frac{80}{90} = 0.8 \text{ g/cm}^3$$



$$\tan x = \frac{5.8}{1.5}$$

$$75.4998^\circ$$

A ladder is placed against a wall.
To be safe, it must be inclined at between 70° and 80° to the ground.

Is the ladder safe?

Yes

Calculate the length of the ladder.

$$y^2 = 1.5^2 + 5.8^2$$

$$y^2 = 35.89$$

$$y = 5.99 \text{ m}$$