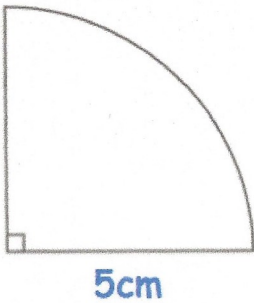


2nd August



Corbettmaths



Calculate the area of this quarter circle

$$\frac{1}{4} \times \pi \times 5^2$$

$$19.63 \text{ cm}^2$$

The time, T , taken to serve the guests at a wedding is inversely proportional to the number of waiters, w .

Explain why.

The time taken decreases when the number of waiters increases.

The time is calculated by

$$T = \frac{300}{w}$$

$$\frac{300}{45} = 6.6 \text{ minutes}$$

Work out how long it would serve the guests if there were 45 waiters.

The density of Nitrogen is

$$1.25 \times 10^{-6} \text{ kg/cm}^3$$

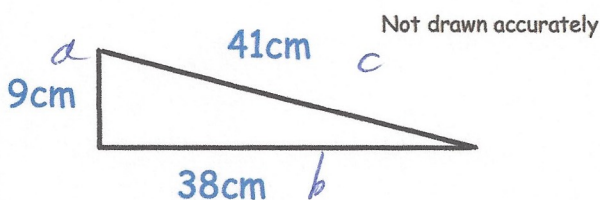
Calculate the mass of one cubic metre of Nitrogen.

$$1 \text{ m}^3 = 1000000 \text{ cm}^3$$

$$m = d \times v$$

$$= 1.25 \times 10^{-6} \times 1000000$$

$$= 1.25 \text{ kg}$$



Is this triangle a right angled triangle?

$$a^2 + b^2 = c^2 \text{ works for right angled triangles}$$

$$9^2 + 38^2 \quad 41^2$$

$$1525 \neq 1681 \quad \underline{\underline{\text{No}}}$$