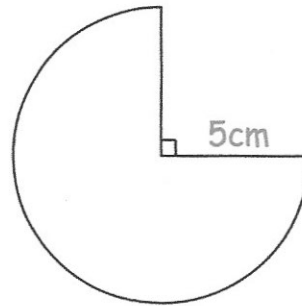




Calculate the area of this sector.

$$\frac{3}{4} \times \pi \times 5^2$$

$$58.9 \text{ cm}^2$$



The number of days, D, to complete research is inversely proportional to the number of researchers, R.

$$D = \frac{240}{R}$$

Work out how long it would take to complete the research if there were 8 researchers.

$$\frac{240}{8} = 30 \text{ days}$$

How many researchers would be needed to complete the research in 15 days?

$$15 = \frac{240}{R}$$

$$240 \div 15 = 16$$

The density of Nitrogen is  $1.25 \times 10^{-6} \text{ kg/cm}^3$

$d^m v$

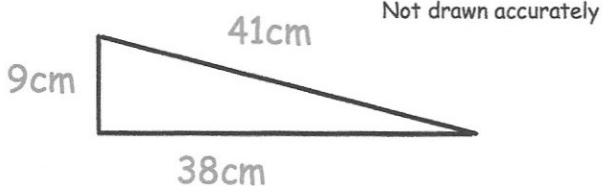
Calculate the mass of one cubic metre of Nitrogen.

$$1 \text{ m}^3 = 1,000,000 \text{ cm}^3$$

$$m = d \times v$$

$$1.25 \times 10^{-6} \times 1,000,000$$

$$1.25 \text{ kg}$$



Is this triangle a right angled triangle?

$$a^2 + b^2 = c^2 ?$$

$$(9)^2 + (38)^2 = 1525$$

$$(41)^2 = 1681$$

No