

22nd January

Corbettmaths

The mean of five numbers is 12.

Four of the numbers are 7, 2, 15 and 4.

Work out the fifth number

$$5 \times 12 = 60$$

$$7 + 2 + 15 + 4 = 28$$

$$60 - 28 = 32$$

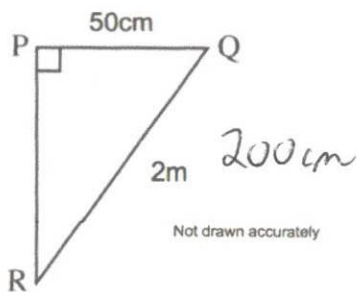
A line has equation $y = \frac{4}{5}x + 3$

Write down the gradient of the line

$$\frac{4}{5}$$

Write down the y-intercept of the line

$$3 \text{ or } (0, 3)$$



Work out the length of PR.

$$PR^2 + PQ^2 = RQ^2$$

$$PR^2 + 50^2 = 200^2$$

$$PR^2 = 37500$$

$$PR = 193.65 \text{ cm}$$

Calculate the density of a piece of wood with a mass of 7g and a volume of 10 cm^3

$$d = \frac{m}{v} = \frac{7}{10}$$

$$0.7 \text{ g/cm}^3$$

Solve $x^2 + 9x + 14 = 0$

$$(x + 7)(x + 2) = 0$$

$$x = -7 \text{ or } -2$$