

Solve $2(5 - 2x) = 5 + 6x$

$$10 - 4x = 5 + 6x$$

$$5 = 10x$$

$$x = 0.5$$

Miss Jenkins buys a car costing £7800

This cost includes VAT at a rate of 20%

How much is the VAT?

$$120\% = 7800$$

$$1\% = 65$$

$$100\% = £6500$$

$$7800 - 6500 = £1300$$

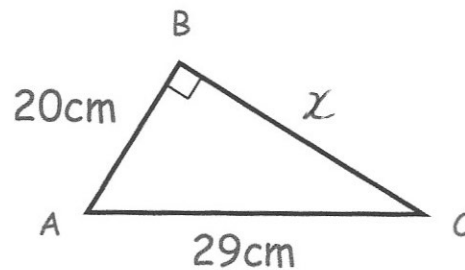
Calculate the length of BC

$$20^2 + x^2 = 29^2$$

$$400 + x^2 = 841$$

$$x^2 = 441$$

$$x = 21 \text{ cm}$$



The Earth and the Sun are 1500000000km apart.

Write this number in standard form.

$$1.5 \times 10^8$$

Convert 1500000000km into metres. Write the answer in standard form.

$$1.5 \times 10^{11}$$

Solve the simultaneous equations

$$3x + 2y = 7 \quad \times 9$$

$$2x + 9y = 43 \quad \times 2$$

$$27x + 18y = 63$$

$$4x + 18y = 86$$

$$23x = -23$$

$$x = -1$$

$$-3 + 2y = 7$$

$$2y = 10$$

$$y = 5$$