



Write down the next term in this sequence

$5a - b, 9a - 2b, 13a - 3b, \dots$

$$17a - 4b$$

Solve $2(x + 5) = 7 - 4x$

$$2x + 10 = 7 - 4x$$

$$6x = -3$$

$$x = -0.5$$

What is the sum of the interior angles of a 20-sided polygon?

$$(20 - 2) \times 180$$

$$18 \times 180 = 3240^\circ$$

A fish tank sprung a leak and loses 45% of its water.

There is now 363 litres of water in the fish tank.

How much water was in the fish tank before the leak?

$$55\% \text{ of total} = 363$$

$$1\% \text{ of total} = 6.6$$

$$100\% \text{ of total} = 660$$

660 litres

The cost of buying a coffee and a tea in a cafe is £4

The cost of buying a coffee and three teas in a cafe is £7

Work out the cost of buying a coffee and the cost of buying a tea.

$$\text{Coffee} = \text{£}2.50, \text{ Tea} = \text{£}1.50$$

$$c + t = 4$$

$$c + 3t = 7$$

$$2t = 3$$

$$t = 1.50$$

$$c + 1.5 = 4 \quad c = 2.50$$