

29th December



Corbettmaths

The table shows the number of sweets in 20 bags.

Number of sweets	Frequency	$f \times$
23	X 1	< 23
24	X 4	= 96
25	X 9	= 225
26	X 3	= 78
27	X 3	= 81

Calculate the mean.

$$503 \div 20 = 25.15$$

Find the size of each interior angle of a regular 40-sided polygon.

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

$$38 \times 180 = 6840$$

$$6840 \div 40 = 171^\circ$$

or

$$360 \div 40 = 9$$

$$180 - 9 = 171$$

Expand and simplify

$$(9y - 7)(2y + 3)$$

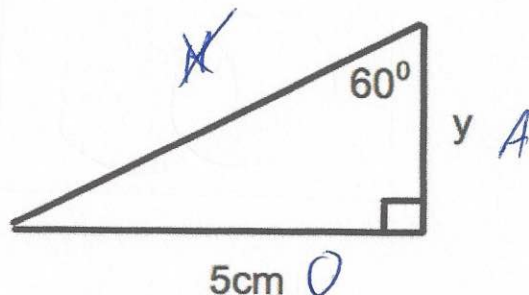
$$18y^2 + 27y - 14y - 21$$

$$18y^2 + 13y - 21$$

Calculate length y

$$y = \frac{5}{\tan 60^\circ}$$

$$= 2.88675 \text{ cm}$$



Sebastian leaves £4000 in the bank for three years.

It earns compound interest of 5% per year.

$$4000 \times 1.05^3$$

$$= 4630.50$$

Calculate the total amount Sebastian has in the bank at the end of the three years.

$$£ 4630.50$$