GCSE FOUNDATION · REVISION MAT 7

Mixed topics

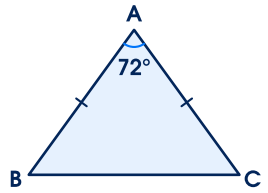
1 Work out 5.4 × 18

2 Solve $3x - 7 = 29$

3 A price of £360 is decreased by 25%.

Show that the new price is £270.

4 Triangle ABC is isosceles with AB = AC. Angle A = 72°.



Show that angle B = 54°.

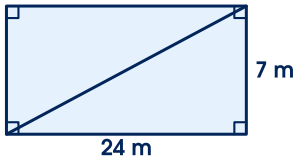
5 The mean of 5 numbers is 24.
4 of them are 20, 27, 22, 25.

Show that the other number is 26.

6 A small pack has 250 g of tea for £3.20.
A large pack has 400 g of tea for £5.20.

Which pack is better value? Show your working.

7 A rectangular gate is 7 m wide and 24 m long.
A diagonal bar goes from one corner to the opposite corner.



Work out the length of the diagonal bar.

8 A bag has 4 red and 11 blue counters.

How many red counters must be added so that the probability of taking a red counter is $\frac{1}{2}$?

ANSWERS · REVISION MAT 7

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1 **97.2**

2 $3x = 36$

$x = \mathbf{12}$

3 25% of £360 = £90

£360 – £90 = **£270** ✓

4 Base angles are equal and the angles add to 180°.

(180 – 72) ÷ 2 = **54°** ✓

5 Total = 5 × 24 = 120

120 – 94 = **26** ✓

6 Small: £3.20 ÷ 250
= 1.28p each unit
Large: £5.20 ÷ 400 = 1.3p each unit

The **small pack** is better value.

7 $\sqrt{(7^2 + 24^2)} = \sqrt{625}$

= **25 m**

8 For P(red) = $\frac{1}{2}$, red must equal blue.

11 – 4 = **7** red counters