GCSE FOUNDATION · REVISION MAT 9

Mixed topics

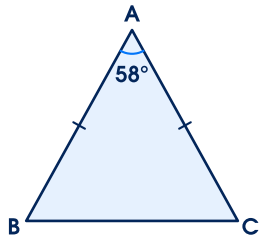
1 Work out 7.2 × 53

2 Solve $7x - 9 = 19$

3 A price of £64 is increased by 75%.

Show that the new price is £112.

4 Triangle ABC is isosceles with AB = AC. Angle A = 58°.



Show that angle B = 61°.

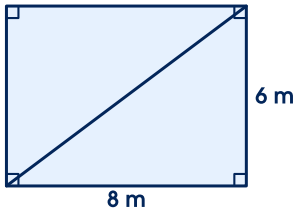
5 The mean of 4 numbers is 7.5. 3 of them are 6, 9, 8.

Show that the other number is 7.

6 A small pack has 12 eggs for £4.20.
A large pack has 30 eggs for £10.20.

Which pack is better value? Show your working.

7 A rectangular gate is 6 m wide and 8 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 1 red and 5 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 9

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1 **381.6**

2 $7x = 28$

$x = \mathbf{4}$

3 75% of £64 = £48

£64 + £48 = **£112** ✓

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

(180 – 58) ÷ 2 = **61°** ✓

5 Total = 4 × 7.5 = 30

30 – 23 = **7** ✓

6 Small: £4.20 ÷ 12 = 35p each unit

Large: £10.20 ÷ 30 = 34p each unit

The **large pack** is better value.

7 $\sqrt{(6^2 + 8^2)} = \sqrt{100}$

= **10 m**

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

5 – 1 = **4** red counters

Mr&Mrs MATHS