GCSE FOUNDATION · REVISION MAT 5

Mixed topics

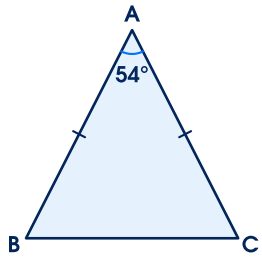
1 Work out 2.7×46

2 Solve $5x - 8 = 37$

3 A price of £450 is increased by 12%.

Show that the new price is £504.

4 Triangle ABC is isosceles with AB = AC. Angle A = 54°.



Show that angle B = 63°.

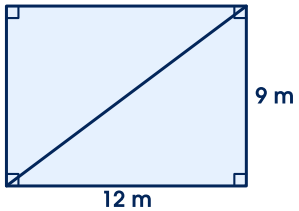
5 The mean of 6 numbers is 11.
5 of them are 9, 15, 8, 12, 10.

Show that the other number is 12.

6 A small pack has 1.5 litres of milk for £1.35.
A large pack has 2.5 litres of milk for £2.10.

Which pack is better value? Show your working.

7 A rectangular gate is 9 m wide and 12 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 5 red and 9 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 5

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1 **124.2**

2 $5x = 45$

$x = \mathbf{9}$

3 12% of £450 = £54

£450 + £54 = **£504** ✓

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

(180 – 54) ÷ 2 = **63°** ✓

5 Total = 6 × 11 = 66

66 – 54 = **12** ✓

6 Small: £1.35 ÷ 1.5 = 90p each unit

Large: £2.10 ÷ 2.5 = 84p each unit

The **large pack** is better value.

7 $\sqrt{(9^2 + 12^2)} = \sqrt{225}$

= **15 m**

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

9 – 5 = **4** red counters

Mr&Mrs MATHS