GCSE FOUNDATION · REVISION MAT 1

Mixed topics

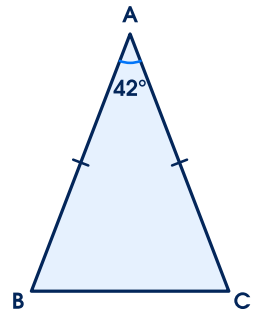
1 Work out 3.6×24

2 Solve $4x - 5 = 23$

3 A price of £240 is increased by 15%.

Show that the new price is £276.

4 Triangle ABC is isosceles with AB = AC. Angle A = 42°.



Show that angle B = 69°.

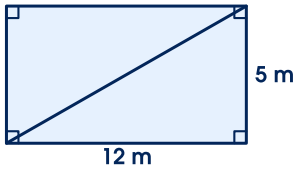
5 The mean of 5 numbers is 9.
4 of them are 7, 12, 6, 10.

Show that the other number is 10.

6 A small pack has 400 g of pasta for £1.80.
A large pack has 650 g of pasta for £2.85.

Which pack is better value? Show your working.

7 A rectangular gate is 5 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 3 red and 7 blue counters.

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

Mr&Mrs MATHS

ANSWERS · REVISION MAT 1

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1 **86.4**

2 $4x = 28$

$x = 7$

3 15% of £240 = £36

£240 + £36 = **£276** ✓

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

(180 – 42) ÷ 2 = **69°** ✓

5 Total = 5 × 9 = 45

45 – 35 = **10** ✓

6 Small: £1.80 ÷ 400 = 0.45p each unit

Large: £2.85 ÷ 650 = 0.438p each unit

The **large pack** is better value.

7 $\sqrt{(5^2 + 12^2)} = \sqrt{169}$

= **13 m**

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

7 – 3 = **4** red counters