GCSE FOUNDATION · REVISION MAT 3

Mixed topics

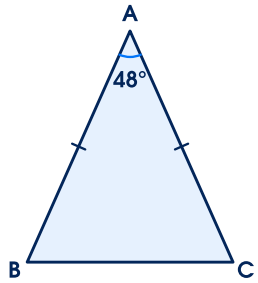
1 Work out 4.8×35

2 Solve $6x - 11 = 7$

3 A price of £80 is decreased by 35%.

Show that the new price is £52.

4 Triangle ABC is isosceles with AB = AC. Angle A = 48°.



Show that angle B = 66°.

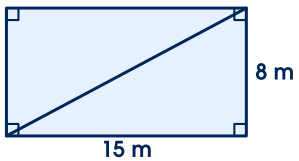
5 The mean of 4 numbers is 16. 3 of them are 13, 20, 14.

Show that the other number is 17.

6 A small pack has 6 rolls for £2.70. A large pack has 15 rolls for £6.45.

Which pack is better value? Show your working.

7 A rectangular gate is 8 m wide and 15 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 2 red and 6 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 3

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1 **168**

2 $6x = 18$

$x = 3$

3 35% of £80 = £28

£80 – £28 = **£52** ✓

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

(180 – 48) ÷ 2 = **66°** ✓

5 Total = 4 × 16 = 64

64 – 47 = **17** ✓

6 Small: £2.70 ÷ 6 = 45p each unit

Large: £6.45 ÷ 15 = 43p each unit

The **large pack** is better value.

7 $\sqrt{(8^2 + 15^2)} = \sqrt{289}$

= **17 m**

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

6 – 2 = **4** red counters