GCSE FOUNDATION · REVISION MAT 2

Mixed topics

1 Write 84 as a product of its prime factors.

2 Expand and simplify

$3(x + 4) + 2(x - 5)$

3 Amy and Ben share £72 in the ratio 5 : 3.

Ben says he gets £36.

Show that Ben is wrong.

4 Show that each interior angle of a regular pentagon is 108°.

5 Sam says the median of 9, 4, 12, 7, 5 is 12 because it is in the middle.

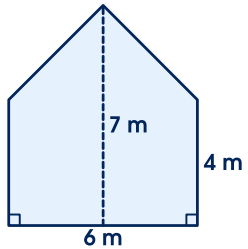
Explain why Sam is wrong.

6 A recipe for 4 people uses 180 g of flour.

Raj wants to make it for 10 people. He has 500 g of flour.

Does he have enough flour? Show your working.

7 The diagram shows a garden. All lengths are in metres.



Turf costs £12 per m^2. Work out the cost of turf for the garden.

8 Ali is x years old. Bea is 5 years older than Ali. Cal is 3 years younger than Ali.

Their ages add up to 41.

How old is each person?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Mixed topics

1 $2^2 \times 3 \times 7$

2 $3x + 12 + 2x - 10$

$= 5x + 2$

3 1 part = £72 ÷ 8 = £9

Ben gets 3 × £9 = **£27**, not £36

4 Exterior angle = 360 ÷ 5 = 72°

Interior = 180 − 72 = **108°** ✓

5 The numbers must be in order first: 4, 5, 7, 9, 12

Median = **7**

6 180 ÷ 4 × 10 = 450 g

Yes, 50 g spare.

7 Area = $6 \times 4 + \frac{1}{2} \times 6 \times 3 = 33\ m^2$

Cost = 33 × £12 = **£396**

8 $x + (x + 5) + (x - 3) = 41$

$3x = 39$, so $x = 13$

Ali **13**, Bea **18**, Cal **10**