GCSE FOUNDATION · REVISION MAT 6

Mixed topics

1 Write 132 as a product of its prime factors.

2 Expand and simplify

$4(x + 3) + 2(x - 7)$

3 Amy and Ben share £120 in the ratio 3 : 5.

Ben says he gets £90.

Show that Ben is wrong.

4 Show that each interior angle of a regular decagon is 144°.

5 Sam says the median of 3, 8, 1, 6, 4 is 1 because it is in the middle.

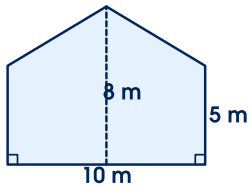
Explain why Sam is wrong.

6 A recipe for 5 people uses 150 g of flour.

Raj wants to make it for 12 people. He has 400 g of flour.

Does he have enough flour? Show your working.

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



Turf costs £15 per m^2. Work out the cost of turf for the garden.

8 Ali is x years old. Bea is 7 years older than Ali. Cal is 4 years younger than Ali.

Their ages add up to 48.

How old is each person?

Mr&Mrs MATHS

ANSWERS · REVISION MAT 6

Mixed topics

1 $2^2 \times 3 \times 11$

2 $4x + 12 + 2x - 14$

$= 6x - 2$

3 1 part = £120 ÷ 8 = £15

Ben gets 5 × £15 = **£75**, not £90

4 Exterior angle = 360 ÷ 10 = 36°

Interior = 180 − 36 = **144°** ✓

5 The numbers must be in order first: 1, 3, 4, 6, 8

Median = **4**

6 150 ÷ 5 × 12 = 360 g

Yes, 40 g spare.

7 Area = $10 \times 5 + \frac{1}{2} \times 10 \times 3 = 65\ m^2$

Cost = 65 × £15 = **£975**

8 $x + (x + 7) + (x - 4) = 48$

$3x = 45$, so $x = 15$

Ali **15**, Bea **22**, Cal **11**