GCSE HIGHER · REVISION MAT 2

Ratio problems

1 Share 84 in the ratio 3 : 4.

2 Squash and water are mixed in the ratio 1 : 5.

How much squash is in 360 ml of drink?

3 Is 0.5 : 2 the same ratio as 1 : 4?

Explain.

4 Amy, Bea and Cal share money in the ratio 2 : 3 : 5.

Cal gets £45 more than Amy.

How much does Bea get?

5 Show that $1\frac{1}{2} : 2\frac{1}{4}$ simplifies to 2 : 3.

6 Green paint uses blue : yellow = 3 : 2.

Kim has 4.5 litres of blue and 2 litres of yellow.

What is the most green paint she can make?

7 The angles of a triangle are in the ratio 2 : 3 : 4.

Show that the triangle is acute.

8 $x : y = 3 : 4$ and $y : z = 6 : 5$

$x + y + z = 186$

Find z.

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Ratio problems

1 7 parts = 84, 1 part = 12

36 and 48

2 6 parts = 360 ml

60 ml

3 **Yes: multiply both parts by 2.**

4 3 parts = £45, 1 part = £15

Bea gets £45

5 Multiply by 4: 6 : 9

2 : 3

6 Yellow runs out first: 2 parts = 2 L

Blue needed: 3 L

5 litres

7 9 parts = 180°, 1 part = 20°

40°, 60°, 80°

All less than 90°

8 $x : y : z = 9 : 12 : 10$

31 parts = 186, 1 part = 6

$z = 60$

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