GCSE FOUNDATION · REVISION MAT 4

Ratio problems

1 Share £120 in the ratio 7 : 5

2 The ratio of red to blue in a group is 5 : 6.

There are 45 red.

How many blue are there?

3 Amy and Ben share some money in the ratio 1 : 3.

Viv says Amy gets $\frac{1}{3}$ of the money.

Explain why Viv is wrong.

4 Green and white paint are mixed in the ratio 2 : 7.

Show that 18 litres of the mix contains 14 litres of white paint.

5 Ali and Ben share some money in the ratio 1 : 6.

Ben gets £45 more than Ali.

How much money is shared altogether?

6 A recipe uses flour, butter and sugar in the ratio 3 : 2 : 2 by mass.

Kim has 600 g of flour, 300 g of butter and 450 g of sugar.

What is the greatest total mass of mixture she can make?

Mr&Mrs MATHS

1 12 parts, 1 part = £10

£70 and £50

2 1 part = 45 ÷ 5 = 9

Blue: 9 × 6 = **54**

3 There are 1 + 3 = 4 parts altogether.

Amy gets $\frac{1}{4}$ of the money.

ANSWERS · REVISION MAT 4

Ratio problems

4 9 parts = 18 litres, 1 part = 2 litres

White: 7 × 2 = 14 litres ✓

5 Difference = 5 parts = £45

1 part = £9

Total = 7 × £9 = **£63**

6 Parts: flour 600 ÷ 3 = 200, butter 300 ÷ 2 = 150, sugar 450 ÷ 2 = 225

Butter runs out first: 1 part = 150 g

Total = 7 × 150 = **1050 g**

Mr&Mrs MATHS