GCSE FOUNDATION · REVISION MAT 2

Ratio problems

1 Share £84 in the ratio 3 : 4

2 The ratio of adults to children in a group is 2 : 7.

There are 18 adults.

How many children are there?

3 Amy and Ben share some money in the ratio 2 : 3.

Tom says Amy gets $\frac{2}{3}$ of the money.

Explain why Tom is wrong.

4 Red and white paint are mixed in the ratio 5 : 3.

Show that 24 litres of the mix contains 9 litres of white paint.

5 Ali and Ben share some money in the ratio 3 : 7.

Ben gets £48 more than Ali.

How much money is shared altogether?

6 A recipe uses flour, butter and sugar in the ratio 4 : 2 : 1 by mass.

Kim has 500 g of flour, 200 g of butter and 150 g of sugar.

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

Mr&Mrs MATHS

ANSWERS · REVISION MAT 2

Ratio problems

1 7 parts, 1 part = £12

£36 and £48

2 1 part = 18 ÷ 2 = 9

Children: 9 × 7 = **63**

3 There are 2 + 3 = 5 parts altogether.

Amy gets $\frac{2}{5}$ of the money.

4 8 parts = 24 litres, 1 part = 3 litres

White: 3 × 3 = 9 litres ✓

5 Difference = 4 parts = £48

1 part = £12

Total = 10 × £12 = **£120**

6 Parts: flour 500 ÷ 4 = 125, butter 200 ÷ 2 = 100, sugar 150 ÷ 1 = 150

Butter runs out first: 1 part = 100 g

Total = 7 × 100 = **700 g**

Mr&Mrs MATHS