GCSE FOUNDATION · REVISION MAT 5

Ratio problems

1 Share £90 in the ratio 4 : 5

2 The ratio of apples to pears in a group is 9 : 4.

There are 54 apples.

How many pears are there?

3 Amy and Ben share some money in the ratio 2 : 5.

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

Explain why Wil is wrong.

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

Show that 32 litres of the mix contains 20 litres of white paint.

5 Ali and Ben share some money in the ratio 5 : 8.

Ben gets £42 more than Ali.

How much money is shared altogether?

6 A recipe uses flour, butter and sugar in the ratio 5 : 2 : 3 by mass.

Kim has 500 g of flour, 160 g of butter and 330 g of sugar.

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

Mr&Mrs MATHS

ANSWERS · REVISION MAT 5

Ratio problems

1 9 parts, 1 part = £10

£40 and £50

2 1 part = 54 ÷ 9 = 6

Pears: 6 × 4 = **24**

3 There are 2 + 5 = 7 parts altogether.

Amy gets $\frac{2}{7}$ of the money.

4 8 parts = 32 litres, 1 part = 4 litres

White: 5 × 4 = 20 litres ✓

5 Difference = 3 parts = £42

1 part = £14

Total = 13 × £14 = **£182**

6 Parts: flour 500 ÷ 5 = 100, butter 160 ÷ 2 = 80, sugar 330 ÷ 3 = 110

Butter runs out first: 1 part = 80 g

Total = 10 × 80 = **800 g**