FOUNDATION & HIGHER

SAME AT BOTH TIERS

Name ..... **Class** .....

R5: Sharing in a ratio

Divide a quantity in a ratio; ratio in real contexts

20 marks · 25 minutes · Non-calculator

1) Share £60 in the ratio 2 : 3

..... £..... and £

[Question 1: 2 marks]

2) Share 84 in the ratio 3 : 4

.....

[Question 2: 2 marks]

3) Share £150 in the ratio 1 : 2 : 3

.....

[Question 3: 2 marks]

4) The ratio of boys to girls in a choir is 4 : 5. There are 35 girls. How many boys are there?

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[Question 4: 2 marks]

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5) Pink paint is made by mixing red and white paint in the ratio 1 : 4. Lou uses 2 litres of red paint.

(a) How much white paint does she use?

..... litres

(1)

(b) How much pink paint does she make?

..... litres

(1)

[Question 5: 2 marks]

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6) A recipe for 4 people uses 300 g of flour. How much flour is needed for 10 people?

..... g

[Question 6: 2 marks]

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7) Concrete is made from cement, sand and gravel in the ratio 1 : 2 : 4. How much sand is in 35 kg of concrete?

..... kg

[Question 7: 2 marks]

8) Amir and Beth share some money in the ratio 3 : 5. Beth gets £20 more than Amir. How much does Amir get?

£ .....

[Question 8: 2 marks]

9) Cut 3 m of ribbon into two pieces in the ratio 2 : 3

..... m and ..... m

[Question 9: 2 marks]

10) A 500 g bag of rice costs £2.40 and a 750 g bag costs £3.45. Which bag is better value? Show your working.

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[Question 10: 2 marks]

End of paper – 20 marks in total

Answers and brief mark scheme

Q	Answer	Method / notes
1	£24 and £36	60 ÷ 5 = 12 (M1); A1.
2	36 and 48	84 ÷ 7 = 12 (M1); A1.
3	£25, £50, £75	150 ÷ 6 (M1); A1.
4	28	35 ÷ 5 = 7 (M1); A1.
5	(a) 8 (b) 10	B1 each.
6	750	300 ÷ 4 × 10 (M1); A1.
7	10	35 ÷ 7 = 5 (M1); A1.
8	£30	2 parts = £20 (M1); A1.
9	1.2 m and 1.8 m	3 ÷ 5 (M1); A1.
10	750 g bag	48p and 46p per 100 g, or equivalent (M1); 750 g (A1).