

Ratio and Proportion

ANSWERS

No calculator | 20 minutes | Total marks: 15

Name

Class

1 Write each ratio in its simplest form.

(a) 4 : 6

Answer 2 : 3 (1) [1 mark]

(b) 10 : 25

Answer 2 : 5 (1) [1 mark]

(c) 12 : 8

Answer 3 : 2 (1) [1 mark]

2 A bag has 5 red counters and 3 blue counters.

(a) Write down the ratio of red counters to blue counters.

Answer 5 : 3 (1) [1 mark]

(b) How many counters are in the bag altogether?

Answer 8 (1) [1 mark]

3

Share £20 in the ratio 1 : 3

$$20 \div 4 = 5 \text{ (1)}$$

Answer £5 and £15 (1)

[2 marks]

4

Share 30 sweets in the ratio 2 : 3

$$30 \div 5 = 6 \text{ (1)}$$

Answer 12 and 18 (1)

[2 marks]

5

3 pens cost £6.

(a) How much does 1 pen cost?

Answer £2 (1)

[1 mark]

(b) How much do 5 pens cost?

Answer £10 (1)

[1 mark]

6 A recipe for 4 people uses 200 g of flour.

(a) How much flour is needed for 8 people?

Answer 400 (1) g [1 mark]

(b) How much flour is needed for 2 people?

Answer 100 (1) g [1 mark]

7 Ana and Ben share some money in the ratio 2 : 1
Ana gets £10.

How much does Ben get?

$$10 \div 2 = 5 \text{ (1)}$$

Answer £5 (1) [2 marks]

Question	Topic	RAG
1	I can simplify a ratio	
2	I can write a ratio from a description	
3	I can share an amount in a ratio	
4	I can share an amount in a ratio	
5	I can find the cost of one, then of many	
6	I can scale a recipe up and down	
7	I can work backwards from one share	