## Ratio 1F Assessment

## THE ANSWERS

## Foundation Level



	Clip	Grade	Title of clip	Question(s)	Marked out of	Score	%
	38	2	Introduction to Ratio	1 - 2	10		
	39	2	Using Ratio for Recipe Questions	3 - 4	7		
	40	2	Introduction to Percentages	5	6		
	41	2	Value for Money	6 - 7	6		
	42	2	Introduction to Proportion	8 - 10	8		
]	105	3	Exchanging Money	11	5		
]	106	3	Sharing using Ratio	12 - 14	10		
]	107	3	Ratios, Fractions and Graphs	15 - 16	8		

Out of 60	TOTAL	
	SCORE	

Final	0/
Percentage	70

- 1) Write the following ratios in their simplest form
  - a) 3:24

- c) 8:12:10
- 1:8

4:6:5

b) 6:20

- d) 18:6:54
- 3:10
- 3:1:9

2

- 2) The scale on a map is 1 : 10 000
  - a) Parnby is 17 cm from Houth on the map. How many km is Parnby from Houth?

\_1.7 km 2

b) If Houth is 11.5 km from Kikby, how many cm apart will they be on the map?

115 cm

3) Here are the ingredients needed to make 10 flapjacks.

100 g Oats 80 g Butter 50 ml Syrup 54 g Sugar

Work out the amount of each ingredient needed to make 25 flapjacks.

250 g Oats 200 g Butter 125 m*l* Syrup 135 g Sugar

3

4) 225 g of butter are needed to make 18 mince pies.

Anais has 475 g of butter.

Does she have enough butter to make 40 of these mince pies?

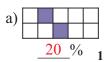
You must show all your working.

 $225 \div 18 = 12.5 \,\text{g}$  per mince pie

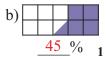
 $40 \times 12.5 = 500 \,\mathrm{g}$  needed

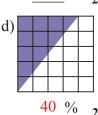
Anais hasn't got enough butter for 40 mince pies.

5) What percentage of these grids are shaded?









6) A pack of 4 pens costs £1.60 A pack of 6 pens costs £1.80

Which pack is the best value for money? You must show all your working.

$$1.60 \div 4 = 40p$$

$$1.80 \div 6 = 30p$$

Pack of 6 pens at £1.80 is better value.

A 3 kg bag of potatoes costs £2.79A 5 kg bag of potatoes costs £4.85

Which is the best value for money? You must show all your working.

$$2.79 \div 3 = 93p$$

$$4.85 \div 5 = 97p$$

Bag of 3 kg at £2.79 is better value.

- 8) Brian made 8 pancakes with 160 g of flour.
  - a) How many pancakes can he make with 320 g of flour?

<u>16</u> 1

3

3

b) How many pancakes can he make with 200 g of flour?

<u>10</u> 2

9) If 6 mangoes cost £7.50, how much would 10 of them cost?

£12.50 2

0) 3 people can build a wall in 4 hours. How long would it take 2 people to build the same wall?

6 hrs

3

- Emma is travelling to Munich.She changes £450 into Euros (€).The exchange rate is £1 = €1.37
  - a) Work out how many € Emma gets.

€<u>616.5</u>0

2

3

On her return home, Emma still has  $\in$ 152 She wants to change them back to £ The exchange rate is now £1 =  $\in$ 1.33

b) Work out how many £ she would get.

£114.29

12) Bill, Tim and Rose share £120 between them in the ratio 2:1:3

How much should each of them receive?

Bill £40

Tim £20

Rose <u>£60</u> 3

13) Yasmin and Ibrahim buy a present for their dad, sharing the cost in the ratio 6:5
Ibrahim pays £15
How much did the present cost?

£ 33 3

14) To obtain the desired colour for his project, Rick is mixing red paint with yellow paint in the ratio 5:3

A litre of red paint costs £4.99 and a litre of yellow paint costs £7.99

If Rick needs 40 litres of his desired colour, how much will it cost him?

£<u>244.60</u>

- 15) In a class, the ratio of boys to girls is 3:2
  - a) What fraction of the class are boys?

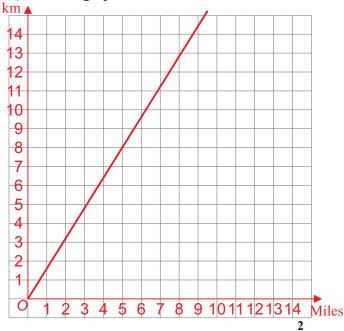
 $\frac{3}{5}$ 

b) What fraction of the class are girls?

 $\frac{\frac{2}{5}}{1}$  1

16) Miles and km are in the ratio 5:8

a) Draw a graph to illustrate this.



b) Use your graph to convert 12 km to miles.

<u>7.5</u> miles <sub>1</sub>

Carol is on a 1200 km journey by car. She has already travelled 300 miles.

c) Work out how many km she has left.

720 km 3