

Ratio 1F Assessment

Foundation Level



All questions

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
Percentage %

1) Write the following ratios in their simplest form

a) 3 : 24

____ : ____ 1

c) 8 : 12 : 10

____ : ____ : ____ 2

b) 6 : 20

____ : ____ 1

d) 18 : 6 : 54

____ : ____ : ____ 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?

_____ km 2

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

_____ cm 2

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.

_____ g Oats
_____ g Butter
_____ ml Syrup
_____ g Sugar

4

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.

3

5) What percentage of these grids are shaded?



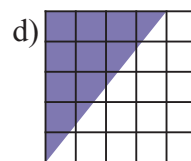
_____ % 1



_____ % 2



_____ % 1



_____ % 2

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.

3

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

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

3

8) Brian made 8 pancakes with 160 g of flour.

a) How many pancakes can he make with 320 g of flour?

_____ 1

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

_____ 2

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

_____ 2

10) 3 people can build a wall in 4 hours.
How long would it take 2 people to build the same wall?

_____ 3

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

€ _____ 2

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

- b) Work out how many £ she would get.

£ _____ 3

- 12) Bill, Tim and Rose share £120 between them
in the ratio 2 : 1 : 3
How much should each of them receive?

Bill _____

Tim _____

Rose _____ 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?

£ _____ 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?

£ _____ 4

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

- a) What fraction of the class are boys?

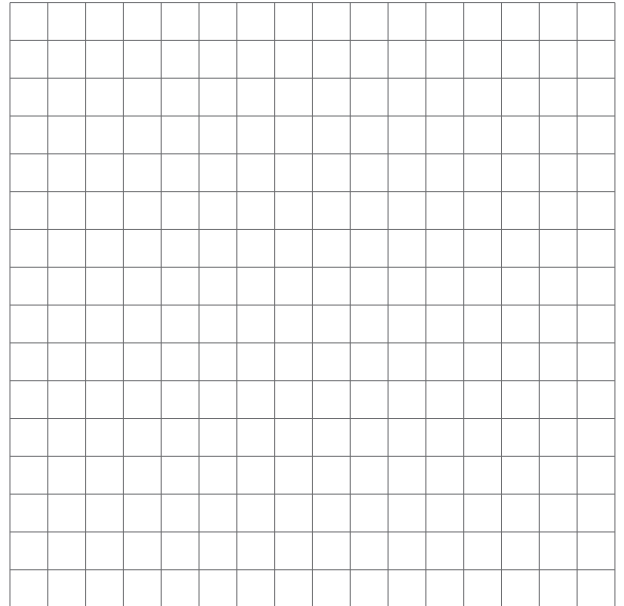
_____ 1

- b) What fraction of the class are girls?

_____ 1

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

- a) Draw a graph to illustrate this.



2

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

_____ miles 1

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

- c) Work out how many km she has left.

_____ km 3