

Ratio 1F Assessment



BEAL SIXTH FORM
ONE SIXTH FORM - TWO SITES - THREE PATHWAYS

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%

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

1) Write the following ratios in their simplest

form

You must show all your working.

- a) $3 : 24$ c) $8 :$
 $12 : 10$

____ : ____ 1 ____ : ____ : ____ 2

- b) $6 : 20$ d) $18 :$
 $6 : 54$

____ : ____ 1 ____ : ____ : ____ 2

3

- 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.

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

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

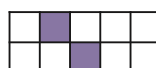
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- 4) 225 g of butter are needed to make 18 mince pies.

Anais has 475 g of butter.

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

- 5) What percentage of these grids are shaded?



_____ %

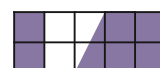


a)

12

b)

_____ % 1



_____ %

c)

d)

_____ % 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

Page 2

11) Emma is travelling to Munich.15)
She changes £450 into Euros (€).
The exchange rate is £1 = €1.37

a) Work out how many € Emma gets.

€ _____ 2
16)

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

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

a) What fraction of the class are boys?

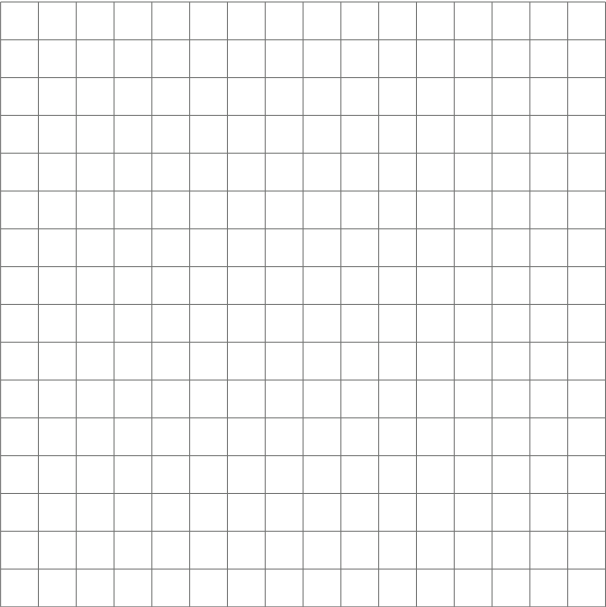
_____ 1

b) What fraction of the class are girls?

_____ 1

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