



## Ratio and Proportion (F)

### Post-Intervention Assessment

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

| Question | Objective                        | RAG |
|----------|----------------------------------|-----|
| 1        | Simplify ratios                  |     |
| 2        | Divide into a ratio              |     |
| 3        | Calculate the best value product |     |
| 4        | Calculate with recipes           |     |
| 5        | Calculate with exchange rates    |     |

1. There are 28 red pens and 84 black pens in a bag.  
Write down the ratio of the number of red pens to the number of black pens.  
Give your ratio in its simplest form.

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2. Last year Kerry's take home pay was £15 000  
She spent 40% of her take home pay on rent.  
She used the rest of her take home pay for living expenses, clothes and  
entertainment in the ratio 3 : 1 : 2  
How much did Kerry spend on entertainment last year?

£.....

3. Potatoes cost £9 for a 12.5 kg bag at a farm shop.  
The same type of potatoes cost £1.83 for a 2.5 kg bag at a supermarket.  
Where are the potatoes the better value, at the farm shop or at the  
supermarket? You must show your working.

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4. Here are the ingredients needed to make 12 shortcakes.

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| <p><b>Shortcakes</b></p> <p>Makes <b>12</b> shortcakes</p> <p>50g of sugar<br/>200g of butter<br/>200g of flour<br/>10ml of milk</p> |
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Liz makes some shortcakes. She uses 25 ml of milk.

- (a) How many shortcakes does Liz make?

Robert has

500 g of sugar  
1000 g of butter  
1000 g of flour  
500 ml of milk

- (b) Work out the greatest number of shortcakes Robert can make.

5. The exchange rate in London is £1 = €1.14 The exchange rate in Paris is €1 = £0.86  
Elaine wants to change some pounds into euros.  
In which of these cities would Elaine get the most euros? You must show all of your working.

[Glue here]