**Ratio and Proportion (F)**

Post-Intervention Assessment

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

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

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

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| **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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| **Shortcakes**  Makes **12** shortcakes  50g of sugar  200g of butter  200g of flour  10ml of milk |

Liz makes some shortcakes. She uses 25 ml of milk.

(a) How many shortcakes does Liz make?

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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.

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**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.

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[Glue here]