Ratio and Proportion

Ratio problems/Recipes

11a. The ratio of cupcakes to donuts and cookies is 6:1:7 Sarah has 70 treats in total. Calculate the number of cupcakes, donut and cookies.	11b. The ratio of cupcakes to donuts and cookies is 5:3:2. Jacob has 90 treats in total. Calculate the number of cupcakes, donut and cookies.

Cupcakes

Donuts

Cookies

Cupcakes

Donuts

Cookies

12a. Omar is buying baking ingredients. The ratio of flour to sugar to butter is 125:150:90. If he buys 750g of flour, how much sugar and butter will he need?	12b. Toby is buying baking ingredients. The ratio of flour to sugar to butter is 95:110:75. If he buys 770g of sugar, how much flour and butter will he need?

Sugar

Butter

Flour

Butter

LIVEWORKSHEETS

8. Here is part of a recipe for 8 individual trifles.

500ml of custard
196g of strawberries
4 tsp of sherry

A. Calculate the quantities needed for 1 person.

B. Calculate the quantities needed for 5 people.

	Custard	Strawberries	Sherry
1 person	ml	g	tsp
5 people	ml	g	tsp

9. True or false?

At Sally's Supermarket, I can buy 4 cans of beans for £1.24.

At Cheap-as-Chips, I can buy 5 cans of beans for £1.30.

At Bargains for You, I can buy 7 cans of beans for £1.75

Beans are cheaper if I buy them from Cheap-as-Chips.

Explain your answer.

LIVEWORKSHEETS

7a. Lucy is making photo frames using buttons. She needs 5 red buttons for every 3 blue and 4 yellow buttons. The costs are as follows: Red: 45p each Blue: 90p each Yellow: 25p each She has spent £17.85 in total. How many of each has she bought?	7b. Molly is making photo frames using sequins. She needs 7 red sequins for every 5 blue and 2 yellow sequins. The costs are as follows: Red: 60p each Blue: 70p each Yellow: 50p each She has spent £34.80 in total. How many of each has she bought?

Red

Blue

Yellow

LIVEWORKSHEETS