

GRAYS TUITION CENTRE – Online Tutoring

WEEK: 10

Week Beginning: (22/02/2021)

Subject: MATHS

Year: 6

Lesson Objective:

- Understand how to use ratio to answer recipe questions
- Be able to identify when ratio is the best method to use to solve questions

Class Worksheets

- Recipe worksheets (See below)
- Ratio and proportion worksheet (See below)

Homework

- Continue to answer recipe and ratio questions

Additional Notes

- All lesson worksheets and **homework for next week (due Week 11)** worksheets can be found below
- Week 9 homework will be marked in lesson hence make sure it is fully complete

Please print 2 a page or open this document during the lesson to save paper!

19. Jasper is making fairy cakes.

A recipe to make 24 fairy cakes requires the following ingredients:

230 grams flour
230 grams butter
230 grams sugar
4 eggs



(a) How much flour is needed to make 12 fairy cakes?

Answer: grams

Jasper decides to make 36 fairy cakes.

(b) Work out the amount of each ingredient which Jasper needs.

..... grams flour
..... grams butter
..... grams sugar
..... eggs

The chocolate icing for 24 cakes uses 60 grams of cocoa powder.

Jasper decides to put chocolate icing on only half of his 36 fairy cakes.

(c) How much cocoa powder does he use?

Answer: grams

17. The information on a pack of '*Salmon pasta*' is shown in the table.

NUTRITION per 100 g	
Protein	10 g
Carbohydrate	15 g
Fat	5 g
Fibre	2 g
Salt	0.5 g

(a) How many grams of protein are in 100 g of '*Salmon pasta*'?

Answer: g

(b) What percentage of the '*Salmon pasta*' is carbohydrate?

Answer: %

The mass of the fibre in a pack of '*Salmon pasta*' is 7 grams.

(c) What is the mass of '*Salmon pasta*' in the whole pack?

Answer: g

(d) What will be the mass of fat in a pack of '*Salmon pasta*'?

Answer: g

15.

Here is a list of the ingredients to make 15 Chocolate Brownies.

50g	chocolate
110g	butter
225g	sugar
50g	flour
120g	nuts

(a) Natasha made 60 Chocolate Brownies.

How much butter did she use?

Ans: g

19. Lily uses these ingredients to make strawberry sorbet:

For 6 people	300 millilitres water
	100 grams sugar
	450 grams strawberries
	2 eggs



(a) Calculate the ingredients needed to make this sorbet for 15 people.

Answer: ml water

..... g sugar

..... g strawberries

..... eggs

(b) For how many people is Lily making this sorbet if she uses exactly 1 kilogram of sugar?

Answer: people

11. A recipe for making 12 cupcakes includes the following ingredients:

Sugar 120g	Eggs 3
Butter 150g	Flour 180g

(a) Calculate the quantities needed to make 16 cupcakes

Answer: Sugar g

Butter g

Eggs g

Flour g

(4 marks)

(b) If you have plenty of all of the other ingredients but only 7 eggs, how many cupcakes can you make?

Answer:(1 mark)

13. The amount of each ingredient needed to make 8 cakes is given in the table below.



ingredients	8 cakes	12 cakes
flour	240 g g
eggs	4
sugar	6 tablespoons tablespoons
butter	150 g g

Complete the table to show how much of each ingredient is needed to make 12 cakes.

- 30 A recipe for 12 cakes needs 200g of flour.
Isaac has 250g of flour.
How many cakes could he make?

11. To cook a joint of beef, you leave it in the oven for 30 minutes for every kilogram it weighs plus 20 minutes extra. Find how long you should cook a joint weighing:
(a) 2kg (b) 3.5kg

Homework: Complete the remaining questions

1. To bake 2 cakes, Jo uses

300g	flour
8	eggs
7	tablespoons of milk
38g	coconut
1.4 ml	vanilla essence

Write down the amounts she needs for 5 cakes

	flour
	eggs
	tablespoons of milk
	coconut
	vanilla essence

9. Five bags of apples cost £3.25

How much would seven bags of apples cost?

.....

5 In 1970 £1 was worth the same as \$2.50.
How many pounds was \$1000 worth?

ANSWER.....

12. Jenny pays £156 for six nights Bed and Breakfast accommodation. How much would it cost her to stay there for 8 nights?

6. Eleven pencils cost £4.95. How much would seven pencils cost?

A	£3.50	B	£3.20	C	£4.00	D	£3.15	E	£4.15
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6. Cheese costs £5.40 per kg. Jessica buys 0.6kg of cheese.
How much does Jessica pay?



Ans: _____

3. Hamster food costs 70p for 40 grams.
What is the cost of 100g of hamster food.

12. In a box of sweets there are 7 toffees for every 12 chocolates. If there are 72 chocolates how many toffees are there?

15. My cat drinks two thirds of a bottle of milk a day. How long will 6 bottles last?

Answer: [2]

11. (a) At a supermarket 3 kilograms of apples costs £12.

How much does 18 kilograms of apples cost?

Answer.....

(b) At the same supermarket 10 kilograms of oranges costs £14.

How much does 4 kilograms of oranges cost?

Answer.....

(c) 3 fully open taps fill up a bath in 60 seconds.

How long will 2 fully open taps take to fill up the same bath?

Answer.....

14. Shortcrust pastry is made using flour and fat in the ratio 2:1.

How many grams of flour are needed to make 900 grams of shortcrust pastry?

Answer: _____ grams [3]