

# Mathematics

## Ratio & Proportion Recipe Questions

### What do I do?

Calculate the quantity of each ingredient for different amounts of people.

### Top Tips!

- You will need to have a good knowledge of your multiples and how to reach a target number by addition.
- Don't rule out addition!** If the recipe is for 8 people (for example) and the target number isn't a multiple of that number (i.e: 16, 24..), then use addition to help you!  
E.g: recipe is for 8 people - target number is 30  
**There is more than one way to approach this.**  
 $3 \times 8 = 24$  people  
 $8 \div 4 = 2$  people, so  $2 \times 3 =$  remaining 6 people

### What skills do I need to improve?

Doing lots of practice questions will help with becoming familiar with question types but what else can you do to improve in this area?

- If there's ever a good excuse to eat cake - it's this! Bake at home, use recipes and create them for different amounts of guests. Have your friends round and eat cake!
- Do you have recipe books at home? Yes? Now you have your questions! Choose a recipe and have a go.
- Parents - a practical, hands-on approach is a wonderful tool with these types of questions. Bake with your child, ask them to help with dinner and have fun with it.

## Questions - Banana Bread

### Banana Bread

A recipe for 8 people

- 140g - butter
- 120g - caster sugar
- 180g - self-raising flour
- 2 large eggs
- 1 tsp baking powder
- 2 ripe bananas
- 50g - icing sugar



How much of each ingredient is required for the following amounts of people?

### Banana Bread - A Small Gathering

A recipe for 12 people

- \_\_\_g - butter
- \_\_\_g - caster sugar
- \_\_\_g - self-raising flour
- \_\_\_ large eggs
- \_\_\_ tsp baking powder
- \_\_\_ ripe bananas
- \_\_\_g - icing sugar

### Banana Bread - Birthday Party

A recipe for 24 people

- \_\_\_g - butter
- \_\_\_g - caster sugar
- \_\_\_g - self-raising flour
- \_\_\_ large eggs
- \_\_\_ tsp baking powder
- \_\_\_ ripe bananas
- \_\_\_g - icing sugar

### Banana Bread - Whole Class

A recipe for 32 people

- \_\_\_g - butter
- \_\_\_g - caster sugar
- \_\_\_g - self-raising flour
- \_\_\_ large eggs
- \_\_\_ tsp baking powder
- \_\_\_ ripe bananas
- \_\_\_g - icing sugar



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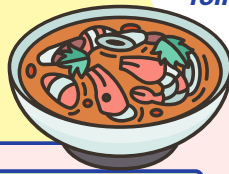
## Ratio & Proportion Recipe Questions

### Questions - Thai Soup with Salmon

#### Thai Soup with Salmon

*A recipe for 4 people*

- 4 salmon fillets
- 200g - rice noodles
- 250g - pak choi leaves
- 125g - Thai curry paste
- 800ml - coconut milk



*How much of each ingredient is required for the following amounts of people?*

#### Thai Soup with Salmon - Friends

*A recipe for 6 people*

- \_\_\_ - salmon fillets
- \_\_\_g - rice noodles
- \_\_\_g - pak choi leaves
- \_\_\_ - Thai curry paste
- \_\_\_ - coconut milk



#### Thai Soup with Salmon - Dinner Party

*A recipe for 18 people*

- \_\_\_ - salmon fillets
- \_\_\_g - rice noodles
- \_\_\_g - pak choi leaves
- \_\_\_ - Thai curry paste
- \_\_\_ - coconut milk

#### Thai Soup with Salmon - Banquet

*A recipe for 50 people*

- \_\_\_ - salmon fillets
- \_\_\_g - rice noodles
- \_\_\_g - pak choi leaves
- \_\_\_ - Thai curry paste
- \_\_\_ - coconut milk

### Questions - Veggie Quesadillas

#### Veggie Quesadillas

*A recipe for 2 people*

- 4 - spring onions
- 400g - mixed beans
- 4 - flour tortillas
- 100g - grated cheese
- 1 tsp chipolte paste



*How much of each ingredient is required for the following amounts of people?*

#### Veggie Quesadillas - Light lunch

*A recipe for 5 people*

- \_\_\_ - spring onions
- \_\_\_g - mixed beans
- \_\_\_ - flour tortillas
- \_\_\_g - grated cheese
- \_\_\_tsp - chipolte paste

#### Veggie Quesadillas - Street Party

*A recipe for 35 people*

- \_\_\_ - spring onions
- \_\_\_g - mixed beans
- \_\_\_ - flour tortillas
- \_\_\_g - grated cheese
- \_\_\_tsp - chipolte paste

#### Veggie Quesadillas - A Fiesta

*A recipe for 100 people*

- \_\_\_ - spring onions
- \_\_\_g - mixed beans
- \_\_\_ - flour tortillas
- \_\_\_g - grated cheese
- \_\_\_tsp - chipolte paste

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## Ratio & Proportion Recipe Questions

### Answers



**Banana  
Bread**

INGREDIENTS	12 PEOPLE	24 PEOPLE	32 PEOPLE
Butter	210g	420g	560g
Caster sugar	180g	360g	480g
Self-raising flour	270g	540g	720g
Large eggs	3	6	8
Baking powder	1.5tsp	3tsp	4tsp
Ripe bananas	3	6	8
Icing sugar	75g	150g	200g



**Thai Soup  
with Salmon**

INGREDIENTS	6 PEOPLE	18 PEOPLE	50 PEOPLE
Salmon	6	18	50
Rice noodles	300g	900g	2500g
Pak choi leaves	375g	1125g	3125g
Thai curry	187.5g	562.5g	1562.5g
Coconut milk	1200g	3600g	10,000g



**Veggie  
Quesadillas**

INGREDIENTS	5 PEOPLE	35 PEOPLE	100 PEOPLE
Spring onions	10	70	200
Mixed beans	1000g	7000g	20,000g
Flour tortillas	10	70	200
Grated cheese	250g	1750g	5000g
Chipolte paste	2.5tsp	17.5tsp	50tsp

For an additional challenge - convert the larger gram amounts into kilograms.