

Name: _____

Exam Style Questions



Proportion: Recipes

Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

www.corbettmaths.com/contents

Video 256



1. Omar is making Shortbread for 16 people.
He has found this recipe on a website.



Shortbread

Serves 8

Butter	150g
Caster Sugar	75g
Plain Flour	175g
Cornflour	50g

How much of each ingredient will he need for 16 people?

$\times 2$

Butter: 300.....g

Caster Sugar: 150.....g

Plain Flour: 350.....g

Cornflour: 100.....g

(3)

2. Here is a recipe for Scones.



Scones

Serves 8

Butter	60g
Flour	260g
Baking Powder	2 teaspoons
Buttermilk	180ml

How much of each ingredient would be needed to make scones for 2 people?

$$\div 4$$

Butter: $\frac{15}{}$g

Flour: $\frac{65}{}$g

Baking Power: $\frac{1}{2}$teaspoons

Buttermilk: $\frac{45}{}$ml

(3)

3. Shown below is a recipe for Stuffed Turkey.



Stuffed Turkey

Serves 4

Turkey	500g	$\times 2.5$
Red Onion	1	$\times 2.5$
Garlic Cloves	2	$\times 2.5$
Chestnut Mushrooms	150g	$\times 2.5$
Spinach	140g	$\times 2.5$
Chicken Stock	300ml	$\times 2.5$

method 2
 $10 \div 4 = 2.5$

Mary wants to make Stuffed Turkey for 10 people.

method 1

How much of each ingredient is needed?
 Include units.

Serves 8
 1000g
 2
 4
 300g
 280g
 600ml

Serves 2
 250g
 $\frac{1}{2}$
 1
 75g
 70g
 150ml

10
 1250g
 2½
 5
~~375g~~
 350g
 750ml

Turkey: 1.25kg

Red Onions: 2½

Garlic Cloves: 5

Chestnut Mushrooms: 375g

Spinach: 350g

Chicken Stock: 750ml

(5)

4. Richard wants to make Shortbread for 3 people.
He has this recipe.



Shortbread

Serves 4 $\div 4 \times 3$

Butter	80g	$\div 4 \times 3 =$	60g
Caster Sugar	60g	$\div 4 \times 3 =$	45g
Plain Flour	100g	$\div 4 \times 3 =$	75g
Cornflour	40g	$\div 4 \times 3 =$	30g

method:

How much of each ingredient will Richard need for 3 people?

Serves 2	Serves 1	Serves 3
40	20	60
30	15	45
50	25	75
20	10	30

Butter:60.....g

Caster Sugar:45.....g

Plain Flour:75.....g

Cornflour:30.....g

(3)

5. Donna uses this recipe for Chilli Con Carne.



Serves 6 people

1 kilogram of mince
400 grams of tomatoes
3 chillies
600 grams of kidney beans

Donna is going to use this recipe to make Chilli Con Carne for 15 people.

- (a) Work out how many grams of mince she needs.

$$\div 6 \times 15$$

$$1000 \div 6 = 166.\dot{6} \text{ g per person}$$

$$166.\dot{6} \times 15 = 2500$$

$$\begin{array}{r} 2500 \\ \hline \text{g} \\ (2) \end{array}$$

Shane uses the same recipe.
He uses 1.2 kilograms of tomatoes.

- (b) How many people is Shane making Chilli Con Carne for?

$$1200 \div 400 = 3$$

$$3 \times 6 = 18$$

$$\begin{array}{r} 18 \text{ people} \\ \hline (2) \end{array}$$

6. Thomas has a recipe for making Rice Krispie cakes.
The recipe uses 120g of chocolate and 80g of Rice Krispies to make 12 cakes.



- (a) How much chocolate should Thomas use to make 30 cakes?

$$\div 12 \times 30$$

$$120g \div 12 = 10g \text{ per cake}$$

$$30 \times 10 = 300g$$

$$\begin{array}{r} 300 \\ \hline \end{array} g$$

(2)

- (b) What is 120g out of 200g expressed as a percentage?

$$\frac{120}{200} = \frac{60}{100}$$

$$\begin{array}{r} 60 \\ \hline \end{array} \%$$

(1)

7. Jo has a recipe for Bolognese Sauce,



Bolognese Sauce

Minced Beef	500 g
Chopped Tomatoes	750 g
Mushrooms	40 g
Chicken Stock	150 ml

She only has 400g of minced beef. $\div 5 \times 4$

How much of the other ingredients should she use?

$$CT \quad 750 \div 5 \times 4 = 600$$

$$M \quad 40 \div 5 \times 4 = 32$$

$$CS \quad 150 \div 5 \times 4 = 120$$

Chopped Tomatoes:600.....g

Mushrooms:32.....g

Chicken Stock:120.....g

(3)

8. The table shows information about the protein content of yoghurt bars.



	per 100g	per bar
Protein	5.75g	2.3g

The yoghurt bars are sold in 520g packs.

- (a) Work out how many bars there are in a pack.

$$5.75 \div 2.3 = 2.5$$

$$100 \div 2.5 = 40g \text{ per bar}$$

$$520 \div 40 = 13$$

13 bars
(2)

Snack size yoghurt bars are made using the same recipe.

Snack size bars are sold in 140g packs.

There are 5 bars in each pack.

- (b) Complete the table for the snack size biscuits.

	per 100g	per snack size bar
Protein	5.75g	1.61g

$$140 \div 5 = 28g \text{ per bar}$$

5.75% protein

$$28 \times 0.0575$$

(3)