

Name: _____

ASM Tuition Academy

PROPORTION

Instructions:

- Use **black** ink or ball-point pen.
 - Answer all questions.
 - Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
 - You must **show all you're working out**.

Information:

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

Advice:

- Read each question carefully before you start to answer it.
- Keep an eye on time.
- Try to answer every question.
- Check your answers if you have time at the end.

Q1. Here is a list of ingredients for making 12 cookies.

Ingredients for 12 Cookies:
100 g flour
80 g butter
40 g sugar
60 ml milk

Work out the amount of each ingredient needed to make 18 cookies.

(Total for question 1 is 3 marks)

Q2. Amir has a recipe for 24 muffins.

Here is a list of ingredients for 24 muffins:

- Self-raising flour: 300 g
- Butter: 180 g
- Sugar: 120 g
- Eggs: 2

Amir wants to make 36 muffins.

(a) Work out the amount of each ingredient needed to make 36 muffins.

Fatima has only 900 g of self-raising flour.

She has plenty of the other ingredients.

(b) Work out the maximum number of muffins that Fatima could bake.

(Total for question 2 is 4 marks)

Q3. Here are the ingredients needed to make 20 chocolate cookies.

Ingredients to make 20 chocolate cookies: 200 g flour 50 g cocoa powder 150 g butter 40 g sugar
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Arham wants to make 30 chocolate cookies.
Work out how much each of the ingredients he needs.

(Total for question 3 is 3 marks)

Q4. Here are the ingredients needed to make 15 cupcakes.

Ingredients to make 15 cupcakes cookies: 75 g of sugar 180 g of butter 240 g of flour 30 ml of milk

Sara makes some cupcakes.
She uses 60 ml of milk.

(a) How many cupcakes does Sara make?

Bilal has:

- 600 g of sugar
- 900 g of butter
- 1200 g of flour
- 400 ml of milk

(b) Work out the greatest number of cupcakes Bilal can make.

(Total for question 4 is 4 marks)

Q5. Here is a list of ingredients for making 15 chocolate muffins.

Ingredients for 15 chocolate muffins

150 g of butter

120 g of sugar

250 g of flour

2 teaspoons of cocoa powder

3 eggs

Ali is going to make 30 of the chocolate muffins.

(a) Work out how much butter he needs.

Hina is going to make 20 of the chocolate muffins.

(b) Work out how much flour she needs.

(Total for question 5 is 4 marks)

Q6. This is a list of ingredients for making a Mango & Oat Crumble for 4 people

Ingredients for 4 people: 100 g plain flour 50 g rolled oats 80 g soft brown sugar 60 g butter 4 ripe mangoes
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Rabie wants to make a mango & oat crumble for 10 people.

Here is what Jessica has in her cupboard:

200 g plain flour

130 g rolled oats

180 g soft brown sugar

200 g butter

8 ripe mangoes

Work out which ingredients Jessica needs to buy more of.

You must show all of your working.

(Total for question 6 is 4 marks)

Q7. Lina needs 210 g of sugar to make 7 muffins. Lina wants to make 20 muffins.

She has 600 g of sugar. Does Lina have enough sugar to make 20 muffins?

Show all working.

(Total for question 7 is 3 marks)