

GCSE QUESTIONS

Q1. CALCULATOR ALLOWED

2.5 kg of apples cost £3.60

Work out the cost of 3.5 kg of apples.

£

(Total for question = 2 marks)

Q2. CALCULATOR ALLOWED

Ingredients for 16 mince pies

- 240 g of butter
- 350 g of flour
- 100 g of sugar
- 280 g of mincemeat

Here is a list of ingredients for making 16 mince pies.

Elaine wants to make 72 mince pies. How much of each ingredient will Elaine need?

butter g

flour g

sugar g

mincemeat g

(Total for question is 3 marks)

Q3. CALCULATOR ALLOWED

Biscuits

Ingredients to make 16 biscuits

- 175 g of butter
- 75 g of sugar
- 250 g of flour

Here are the ingredients needed to make 16 biscuits.

Anna has

- 500 g of butter
- 300 g of sugar
- 625 g of flour

Work out the greatest number of biscuits Anna can make.

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(Total for question = 3 marks)

Q4. CALCULATOR ALLOWED

Here is the list of ingredients for making 30 biscuits.

Ingredients for 30 biscuits

- 225 g butter
- 110 g caster sugar
- 275 g plain flour
- 75 g chocolate chips

Lucas has the following ingredients.

- 900 g butter
- 1000 g caster sugar
- 1000 g plain flour
- 225 g chocolate chips

What is the greatest number of biscuits Lucas can make? You must show your working.

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(Total for question = 3 marks)

Q5. CALCULATOR ALLOWED

Jane made some almond biscuits which she sold at a fete.

- She had:
- 5 kg of flour
 - 3 kg of butter
 - 2.5 kg of icing sugar
 - 320 g of almonds

Here is the list of ingredients for making 24 almond biscuits.

Ingredients for 24 almond biscuits

- 150 g flour
- 100 g butter
- 75 g icing sugar
- 10 g almonds

Jane made as many almond biscuits as she could, using the ingredients she had.

Work out how many almond biscuits she made.

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(Total for question = 3 marks)

Q6. CALCULATOR ALLOWED

Walnut biscuits	
Ingredients to make 20 biscuits	
50 g	butter
100 g	caster sugar
40 g	flour
50 g	walnuts
2	egg whites

Here are the ingredients needed to make 20 walnut biscuits.

Liz wants to make 50 walnut biscuits.

Work out the amount of each ingredient she needs.

butter g
 caster sugar g
 flour g
 walnuts g
 egg whites

(Total for question = 3 marks)

Q7. CALCULATOR ALLOWED

Here is a list of ingredients for making 20 gingerbread men.

350 g	flour
10 g	ground ginger
100 g	butter
175 g	brown sugar
60 g	syrup
1	egg

Sue has,
 1 kg flour
 200 g ground ginger
 500 g butter
 600 g brown sugar
 100 g syrup
 2 eggs

Sue wants to make 60 gingerbread men. She has not got enough of all the ingredients.

(a) Work out how much more of each ingredient she needs.

On a different day Sue wants to make 50 gingerbread men. She has no eggs.
 (b) Explain why she needs to buy at least 3 eggs.

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(1)

(Total for question = 5 marks)

Q8. CALCULATOR ALLOWED

<p>Chocolate mousse for 2 people</p> <p>40 grams sugar 110 grams dark chocolate 2 eggs $\frac{1}{4}$ teaspoon lemon juice</p>
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Here is a list of ingredients for making chocolate mousse for 2 people.

Ellie has 250 grams of sugar and 550 grams of dark chocolate. She assumes that she has plenty of lemon juice and plenty of eggs.

(a) What is the greatest number of people Ellie can make chocolate mousse for? You must justify your answer.

(3)

Ellie only has 6 eggs.

(b) What effect would this have on the greatest number of people Ellie can make chocolate mousse for?

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(1)

(Total for question = 4 marks)

Q9. CALCULATOR ALLOWED

Adrian is going to make concrete.
 He is going to use

- 180 kg of cement
- 375 kg of sand
- 1080 kg of stone

Cement, sand and stone are sold in bags.

1 bag cement	1 bag sand	1 bag stone
25 kg	22.5 kg	50 kg

Adrian already has

10 bags of cement

20 bags of sand

20 bags of stone

Work out what bags he needs to buy to make the concrete.

(Total for question = 3 marks)

Q10. CALCULATOR ALLOWED

There are 84 calories in 100 g of banana. There are 87 calories in 100 g of yogurt.

Priti has 60 g of banana and 150 g of yogurt for breakfast. Work out the total number of calories in this breakfast.

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(Total for question = 4 marks)

Q11. CALCULATOR ALLOWED

Yesterday it took 5 cleaners $4\frac{1}{2}$ hours to clean all the rooms in a hotel.

There are only 3 cleaners to clean all the rooms in the hotel today. Each cleaner is paid £8.20 for each hour or part of an hour they work.

How much will each cleaner be paid today?

£

(Total for question = 3 marks)

Q12. CALCULATOR ALLOWED

Machine A and machine B both make car parts.

Machine A makes 6 parts every 10 minutes. Machine B makes 13 parts every 15 minutes.

On Monday

machine A makes parts for 12 hours

machine B makes parts for 10 hours

Work out the total number of parts made by the two machines on Monday.

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(Total for question = 4 marks)

Q13. CALCULATOR ALLOWED

A company has to make a large number of boxes.

The company has 6 machines. All the machines work at the same rate.

When all the machines are working, they can make all the boxes in 9 days.

The table gives the number of machines working each day.

	day 1	day 2	day 3	all other days
Number of machines working	3	4	5	6

Work out the total number of days taken to make all the boxes.

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(Total for question = 3 marks)