Name Class



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Recipes

(9 - 1) Topic booklet

These questions have been collated from previous years GCSE Mathematics papers.

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.

Total Marks

Instructions

- •Use black ink or ball-point pen.
- •Fill in the boxes at the top of this page with your name, centre number and candidate number.
- •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 your working out.
- •If the question is a **1F** question you are not allowed to use a calculator.
- •If the question is a **2F** or a **3F** question, you may use a calculator to help you answer.

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 the time.
- •Try to answer every question.
- •Check your answers if you have time at the end.

Answer ALL questions Write your answers in the space provided. You must write down all the stages in your working.

15 Here is a list of ingredients for making chocolate mousse for 2 people.

Chocolate mousse for 2 people

40 grams sugar 110 grams dark chocolate 2 eggs

 $\frac{1}{4}$ teaspoon lemon juice

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?

(1)

Specimen 2 – Paper 2F

(Total for Question 15 is 4 marks)

17	Heidi wants to make some biscuits using this recipe.	
	Makes 12 biscuits	
	125 g butter 200 g flour 50 g sugar	
	Heidi thinks that she has, 500 g butter 700 g flour 250 g sugar	
	Assuming that these weights are correct,	
	(a) work out the greatest number of biscuits Heidi can make. You must show all your working.	
		(4)
	Heidi is wrong. She has more than 250 g of sugar.	
	(b) Does this affect the greatest number of biscuits Heidi can make? Give a reason for your answer.	
No	vember 2021 – Paper 1F (Total for Question 1	(1)
140	vember 2021 – Paper 1F (Total for Question 1	1 / Is 5 marks)

17 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.

May 2018 – Paper 2F

(Total for Question 17 is 3 marks)

18 Here is a list of ingredients for making 10 scones.

Ingredients for 10 scones

75 g butter

350g self-raising flour

40 g sugar

 $150\,\mathrm{m}l$ milk

2 eggs

Mia wants to make 25 scones. Work out how much sugar she needs.

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June 2022 – Paper 1F

(Total for Question 18 is 2 marks)

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

Ingredients for 16 mince pies

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

Elaine wants to make 72 mince pies.

How much of each ingredient will Elaine need?

butter	 g
flour	 g
sugar	 g
mincemeat	 g

Specimen 1 – Paper 2F

(Total for Question 18 is 3 marks)

	Biscuits
	Ingredients to make 16 biscuits
	175 g of butter 75 g of sugar 250 g of flour
Anna has 500 g of butter 300 g of sugar 625 g of flour	
Work out the greatest numb	er of biscuits Anna can make.

November 2019 – Paper 2F

(Total for Question 19 is 3 marks)

19 Here is a list of ingredients for making 16 flapjacks.

Ingredients for 16 flapjacks

120 g butter 140 g brown sugar 250 g oats 2 tablespoons syrup

Jenny wants to make 24 flapjacks.

Work out how much of each of the ingredients she needs.

syrup	tablespoons
oats	g
brown sugar	g
butter	g

November 2017 – Paper 1F

(Total for Question 19 is 3 marks)

19 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.

Sample 1 – Paper 2F

(Total for Question 19 is 3 marks)

20 Here is a list of ingredients for making 10 scones.

Ingredients for 10 scones

80 g butter 350 g self-raising flour 30 g sugar 2 eggs

Martin has

100 g butter 1 kg self-raising flour 50 g sugar 4 eggs

Martin wants to make 25 scones. He has not got enough of some of the ingredients.

Work out how much more of each of these ingredients he needs.

November 2022 - 3F

(Total for Question 20 is 4 marks)

	She also needs	
	three times as much flour as sugar two times as much butter as sugar	
	Deon is going to make 60 biscuits.	
	(a) Work out the amount of flour she needs.	
		(3)
	Deon has to buy all the butter she needs to make 60 biscuits.	(3)
	She buys the butter in 250 g packs.	
	(b) How many packs of butter does Deon need to buy?	
		(2)
Jun	te 2019 – Paper 1F (Total for Question)	on 23 is 5 marks)