Name Class



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Interest

(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.

13	Abi invests £500 for 4 years in a bank account. The account pays simple interest at a rate of 2.3% per year.
	Work out the total amount of interest Abi has got at the end of 4 years.
	£
Cm	
Spe	ecimen 2 – Paper 2F (Total for Question 13 is 3 marks)
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15 Remi invests £600 for 5 years in a savings account. By the end of the 5 years he has received a total of £7	'5 simple interest.
Work out the annual rate of simple interest.	•
	9%
November 2018 – Paper 2F	(Total for Question 15 is 3 marks)

16 Maria invests £4500 in a savings account for 3 years. The account pays simple interest at a rate of 1.8% per year.	r.
Work out the total amount of interest Maria gets by the en	d of the 3 years.
	£
November 2019 – Paper 2F	Total for Question 16 is 2 marks)

22 Anil wants to invest £25000 for 3 years in a bank.

Personal Bank

Compound Interest

2% for each year

Secure Bank

Compound Interest

4.3% for the first year 0.9% for each extra year

Which bank will give Anil the most interest at the end of 3 years? You must show all your working.

June 2017 – Paper 2F

(Total for Question 22 is 3 marks)

23 Ella invests £7000 for 2 years in an account paying	g compound interest.
In the first year, the rate of interest is 3% In the second year, the rate of interest is 1.5%	
Work out the value of Ella's investment at the end	of 2 years.
	£
November 2022 – 2F	(Total for Question 23 is 3 marks)

	ank has two types of account. nts pay compound interest.			
	Cash savings account Interest 2.5% per annum		Shares account Interest 3.5% per annum	
Ben invests	£2000 in the cash savings acco £1600 in the shares account.		of 3 years	
	st show all your working.	st by the end o	1 3 years.	
				(4)
In the 3rd y	ear the rate of interest for the sl	hares account	is changed to 4% per annum.	
	is affect who will get the most eason for your answer.	interest by the	end of 3 years?	

(Total for Question 23 is 5 marks)

(1)

November 2018 – Paper 2F

25	Katy invests £200 000 in a savings account for 4 years. The account pays compound interest at a rate of 1.5 % per annum.	
	Calculate the total amount of interest Katy will get at the end of 4 years.	
	€	
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25 Toby invested £7500 for 2 years in a savings account He was paid 4% per annum compound interest.	t.
How much money did Toby have in his savings acco	unt at the end of 2 years?
	£
Specimen 1 – Paper 2F	(Total for Question 25 is 2 marks)

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26 A new phone cost £679 The value of the phone decreases at a rate of 4% per y	vear.
Work out the value of the phone at the end of 3 years.	
	£
June 2022 – Paper 2F	(Total for Question 26 is 3 marks)