Name

Class



★ MATHS TEACHER HUB

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Percentages

(9-1) Topic booklet

HIGHER



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.

3 A delivery company has a total of 160 cars and vans.

the number of cars: the number of vans = 3:7

Each car and each van uses electricity or diesel or petrol.

 $\frac{1}{8}$ of the cars use electricity.

25% of the cars use diesel.

The rest of the cars use petrol.

Work out the number of cars that use petrol.

You must show all your working.

June 2022 - Paper 1H

(Total for Question 3 is 5 marks)

3 A bonus of £2100 is shared by 10 people who work for a company. 40% of the bonus is shared equally between 3 managers. The rest of the bonus is shared equally between 7 salesmen. One of the salesmen says, "If the bonus is shared equally between all 10 people I will get 25% more money." Is the salesman correct? You must show how you get your answer.

		4
Jui	ne 2018 – Paper 1H	(Total for Question 3 is 4 marks)
		%
	Work out her percentage profit.	
	Renee sells all the bags of sweets.	
	Renee puts all the sweets into bags. She puts 250 g of sweets into each bag. She sells each bag of sweets for 65p.	
3	Renee buys 5 kg of sweets to sell. She pays £10 for the sweets.	

5	Sean pays £10 for 24 chocolate bars.	
	He sells all 24 chocolate bars for 50p each.	
	Work out Sean's percentage profit.	
		%
N	November 2020 – Paper 1H	(Total for Question 5 is 3 marks)
11	November 2020 Tuper III	(10th) for Question 5 is 5 marks)

	In a company, the ratio of the number of men to the number of women is 3:2		
	40% of the men are under the age of 25 10% of the women are under the age of 25		
	What percentage of all the people in the company are under the age of 25?		
		%	
Sa	ample 1 – Paper 1H (Total for Question 5 is 4 marks)		

7 A shop has a sale.

Microwave ovens

 $\frac{1}{3}$ off normal price

Combination ovens

40% off normal price

A microwave oven has a sale price of £90 A combination oven has a sale price of £84

Which of these ovens has the greater normal price? You must show all your working.

Specimen 2 – Paper 1H

(Total for Question 7 is 4 marks)

11	Jack and Sadia work for a company that sells boxes of breakfast cereal.			
	The company wants to have a special offer.			
	Here is Jack's idea for the special offer.			
	Put 25% more cereal into each box and do not change the price.			
	Here is Sadia's idea.			
	Reduce the price and do not change the amount of cereal in each box.			
	Sadia wants her idea to give the same value for money as Jack's idea.			
	By what percentage does she need to reduce the price?			
		%		
No	ovember 2018 – Paper 1H (Total for Question 11 is 3 marks)	_		