Surname		Other names
Pearson Edexcel Level 1/Level 2 GCSE (9 - 1)	Centre Number	Candidate Number
Mathemat Paper 1 (Non-Calcula		
		Foundation Tier
Specimen Papers Set 2 Time: 1 hour 30 minutes		Foundation Tier Paper Reference 1MA1/1F

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.
- Calculators may not be used.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out**.

Information

- The total mark for this paper is 80
- 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.



Turn over 🕨



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	Answer ALL questions.
	Write your answers in the spaces provided.
	You must write down all the stages in your working.
1	Find 10% of £320
	£
	(Total for Question 1 is 1 mark)
2	Write 0.8 as a percentage.
	(Total for Question 2 is 1 mark)
2	
3	(a) Work out $84 \div 3$
	(1)
	(b) Work out 0.17×6000
	(1)
	(c) Work out $(-2)^3$
	(1)
	(Total for Question 3 is 3 marks)
4	Here is a square-based pyramid.
	(i) How many faces does the pyramid have?
	(ii) How many edges does the pyramid have?
	(Total for Question 4 is 2 marks)



Here a	re the instructions for makin	g a drink.
		Add 100 m <i>l</i> of juice to 2 litres of water
Dev us	ses 5 litres of water to make	the drink.
How n	nuch drink has he made?	
		(Total for Question 6 is 3 marks)
In a bo	ox there are three types of ch	ocolates.
There	are 6 plain chocolates, 8 milk chocolates and 10 white chocolates.	
Ben ta	kes at random a chocolate fr	om the box.
(a) Wi	ite down the probability that	t Ben takes a plain chocolate.
		(2)
	akes 2 chocolates from the b	DOX.
Deon t		
	ite down all the possible con	nbinations of types of chocolates that Deon can take.
	ite down all the possible co	nbinations of types of chocolates that Deon can take.
	ite down all the possible co	nbinations of types of chocolates that Deon can take.
	ite down all the possible co	nbinations of types of chocolates that Deon can take.

8 8 identical pens cost £12 Work out the cost of 10 of these pens. £ (Total for Question 8 is 2 marks) Here are five fractions. 9 $\frac{2}{8}$ $\frac{10}{40}$ $\frac{12}{48}$ $\frac{5}{24}$ 20 80 One of these fractions is **not** equivalent to $\frac{1}{4}$ (a) Write down this fraction. (1) (b) Work out $\frac{2}{7} + \frac{1}{14}$ (2) (c) Work out $\frac{4}{5} \div \frac{3}{10}$ Give your answer in its simplest form. (2)

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12 Helen has 80 books to sell.

Each book is Fiction or Non-fiction. The ratio of the number of Fiction books to the number of Non-fiction books is 3:1

Each book has a normal price of £10 Helen reduces the price of all the Non-fiction books.



Helen sells all 80 books.

Work out the total amount of money Helen will receive.

.....

£

(Total for Question 12 is 4 marks)

13 Ryan and Carl each get paid a basic pay of £60 per day.

One day, Ryan also gets a bonus of 25% of his basic pay. Carl also gets $\pounds 20$ in tips from customers.

Work out the difference between the total amounts of money that Ryan and Carl each get.

(Total for Question 13 is 3 marks)

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%

14 Some people were asked if they liked swimming or cycling or running.

The table shows the results for the males and the results for the females.

	Swimming	Cycling	Running
Male	2	6	4
Female	8	5	5

(a) On the grid, draw a bar chart to show this information.

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|------|------|------|------|------|------|------|
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(4)

(2)

(b) Work out the percentage of the 30 people that are female.

15 The table shows	information about	the ages of all t	he people at a pa	irty.
--------------------	-------------------	-------------------	-------------------	-------

Age (years)	Frequency
11 – 20	6
21 - 30	16
31 - 40	10
41 - 50	8

(a) Work out the total number of these people who were aged 40 or less.

Andy says that the range of ages is 39 years because 50 - 11 = 39

(b) The range may not be 39 years. Explain why.

(Total for Question 15 is 2 marks)

(1)

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16 The diagram shows a quadrilateral <i>ABCD</i> . B + C + C + C + C + C + C + C + C + C +	
Is <i>AB</i> parallel to <i>DC</i> ? You must give your reasoning.	
(Total for Question 16 is 3 marks)	-
17 Irena sells ice creams.One day she sells 80 ice creams.The next day she sells 108 ice creams.	
Work out the percentage increase in the number of ice creams she sells.	
(Total for Question 17 is 3 marks)	/0

Dimitar then eats 5 of his sweets.	
Pip then eats half of her sweets.	annata Dimitan and Din nam have
Write expressions for the number of	sweets Dimital and Pip now have.
Dimitar	Pip
	(Total for Question 18 is 3 mark
(a) Factorise $y^2 + 27y$	
b) Simplify $(t^3)^2$	
9	
c) Simplify $\frac{w^9}{w^4}$	
	(Total for Question 19 is 3 mark

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21 David has designed a game. He uses a fair 6-sided dice and a fair 5-sided spinner. The dice is numbered 1 to 6 The spinner is numbered 1 to 5

Each player rolls the dice once and spins the spinner once. A player can win £5 or win £2

Win £5	Win £2
roll a 5 and spin a 5	roll a 1 or spin a 1 or both

David expects 30 people will play his game. Each person will pay David £1 to play the game.

(a) Work out how much profit David can expect to make.

(b) Give a reason why David's actual profit may be different to the profit he expects to make.

(1)

(4)

£

(Total for Question 21 is 5 marks)

22 Triangle *ABC* has perimeter 20 cm.

AB = 7 cm. BC = 4 cm.

By calculation, deduce whether triangle *ABC* is a right-angled triangle.

(Total for Question 22 is 4 marks)

23 One sheet of A3 card has area $\frac{1}{8}$ m².

The card has a mass of 160 g per m^2 .

Work out the total mass of 25 sheets of A3 card.

(Total for Question 23 is 4 marks)

	2	8	18	32	50
	2	0	10	32	30
(a) Find the	next term of th	nis sequence.			
					(1)
The <i>n</i> th tern	n of a different	sequence is 3	$3n^2 - 10$		
(b) Work ou	t the 5th term	of this sequence	.		
		1			
					(1)
				Total for Questi	ion 24 is 2 marks)

(Total for Question 25 is 3 marks)

TOTAL FOR PAPER IS 80 MARKS

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