Write your name here		
Surname	Oth	er names
Pearson Edexcel Level 1/Level 2 GCSE (9 - 1)		Candidate Number
Mathemat		
Paper 1 (Non-Calcul		Foundation Tier
		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 must 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** guestion 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.



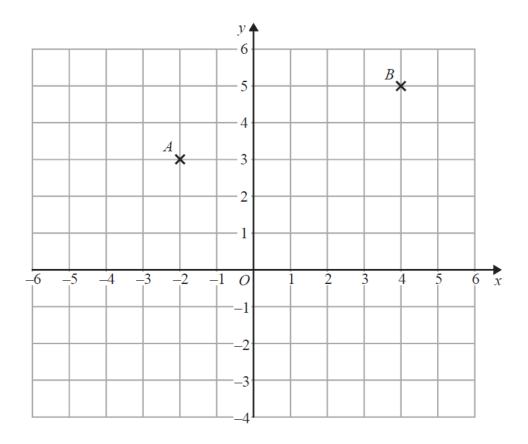
Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

£
(Total for Question 1 is 1 mark)
%
(Total for Question 2 is 1 mark)
(1)
(1)
(1)
(Total for Question 3 is 3 marks)
(Total for Question 4 is 2 marks)

5



(a) Write down the coordinates of point B.

		(, ,
		(1)
(b)	Find the coordinates of the midpoint of AB .	
		(, ,
		(1)
(c)	On the grid, draw the line with equation $y = -3$	(1)
		(Total for Question 5 is 3 marks)

Here are the instructions for making	ing a drink.	
	Add 100 ml of juice to 2 litres of water	
Dev uses 5 litres of water to make	e the drink.	
How much drink has he made?		
		(Total for Question 6 is 3 marks)
In a box there are three types of c	hocolates.	
There are 6 plain chocolates, 8 milk chocolates and 10 white chocolate		
Ben takes at random a chocolate	from the box.	
(a) Write down the probability the	hat Ben takes a plain choo	colate.
		(2)
Deon takes 2 chocolates from the	box.	
(b) Write down all the possible of	combinations of types of o	chocolates that Deon can take.
		(2)

8 8 identical pens cost £12 Work out the cost of 10 of these pens.

£.....

(Total for Question 8 is 2 marks)

9 Here are five fractions.

$$\frac{2}{8}$$
 $\frac{10}{40}$ $\frac{12}{48}$ $\frac{5}{24}$ $\frac{20}{80}$

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 $\frac{4}{5} + \frac{3}{10}$

Give your answer in its simplest form.

(2

(Total for Question 9 is 5 marks)

	<i>x</i> =	
f(h) $f=6$		
$ \begin{array}{ll} (b) & f = 6 \\ g = 5 \end{array} $		
Work out the value of $3f - 2g$		
	(Total for Qu	uestion 10 is 4
V.: 1 1: 1: 1: 1: 1:	.4 - 11 4- 10	
Write down three different multiples of 4 th	at add up to 40.	
Write down three different multiples of 4 th	at add up to 40.	
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(a) Solve 3x + 7 = 1

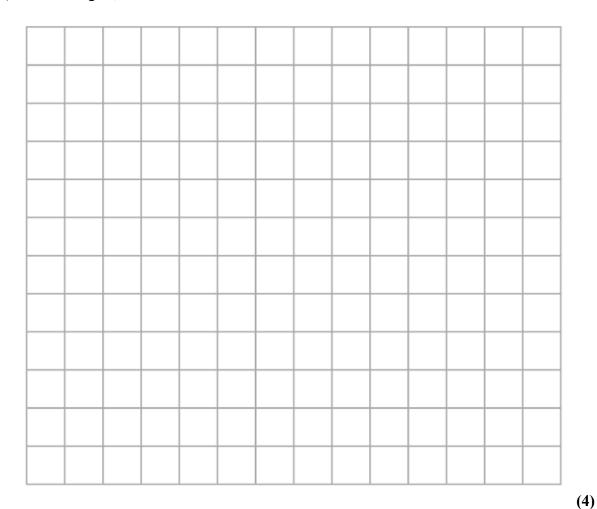
10

Each book has a normal p Helen reduces the price of	f all the Non-fiction books.	
	Non-fiction	1
	All books ½ price	
Helen sells all 80 books.		
Work out the total amoun	t of money Helen will receive	e.
		£(Total for Question 12 is 4 mai
		(Total for Question 12 is 4 mar
Ryan and Carl each get pa	aid a basic pay of £60 per day	(Total for Question 12 is 4 mar
	bonus of 25% of his basic parts	(Total for Question 12 is 4 man
One day, Ryan also gets a Carl also gets £20 in tips	bonus of 25% of his basic particles from customers.	(Total for Question 12 is 4 man
One day, Ryan also gets a Carl also gets £20 in tips	bonus of 25% of his basic particles from customers.	(Total for Question 12 is 4 man
One day, Ryan also gets a Carl also gets £20 in tips	bonus of 25% of his basic particles from customers.	(Total for Question 12 is 4 man

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.



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

.....%

(Total for Question 14 is 6 marks)

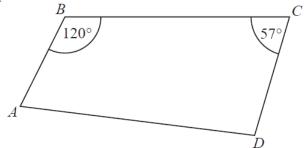
15 The table shows information about the ages of all the people at a party.

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.

	(1)
Andy says that the range of ages is 39 years because $50 - 11 = 39$	
(b) The range may not be 39 years. Explain why.	
	(1)
(Total for Question 15	is 2 marks)

16 The diagram shows a quadrilateral *ABCD*.



Is *AB* parallel to *DC*? You must give your reasoning.

(Total for Question 16 is 3 marks)

17 Irena sells ice creams.

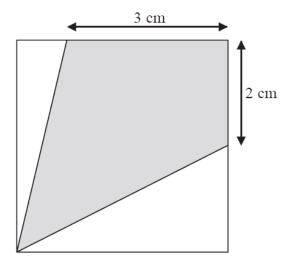
One day she sells 80 ice creams.

The next day she sells 108 ice creams.

Work out the percentage increase in the number of ice creams she sells.

18	Dimitar has 20 sweets. Pip also has 20 sweets.			
	Dimitar gives I	Pip x sweets.		
		ats 5 of his sweets.		
	Write expression	ons for the number of sweets Dim	itar and Pip now have.	
	Dimitar		Pip (Total for Question 18 is 3 marks)	
19	(a) Factorise	$y^2 + 27y$		
	(b) Simplify	$(t^3)^2$	(1)	
			(1)	
	(c) Simplify	$\frac{w^9}{w^4}$		
		"		
			(1)	
			(Total for Question 19 is 3 marks)	

20 The diagram shows a square with perimeter 16 cm.



Work out the proportion of the area inside the square that is shaded.

(Total for Question 20 is 5 marks)

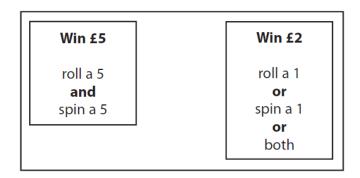
21	David has designed a game.
	He uses a fair 6-sided dice and a fair 5-sided spinner.

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.



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.

	£	
		(4)
(b)	Give a reason why David's actual profit may be different to the profit he expects to make.	
		(1)
	(Total for Question 21 is 5 ma	rks)

Triangle ABC has perimeter 20 cm. 22 AB = 7 cm. BC = 4 cm. By calculation, deduce whether triangle ABC is a right-angled triangle. (Total for Question 22 is 4 marks) One sheet of A3 card has area $\frac{1}{8}$ m². 23 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	
(a) Find th	ne next term o	f this sequence.				
()		- · · · · · · · · · · · · · · · ·				
						(1)
The <i>n</i> th ter	m of a differe	nt sequence is 3	$n^2 - 10$			(1)
(b) Work	out the 5th ter	m of this seque	ice.			
						(1)
				(Total for	Question 24 is 2	2 marks)

TOTAL FOR PAPER IS 80 MARKS

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24

25