Please check the examination details below before entering your candidate information					
Candidate surname		Other names			
Pearson Edexcel Level 1/Level 2 GCSE (9–1)	Centre Number	Candidate Number			
Tuesday 21 May 2019					
Morning (Time: 1 hour 30 minutes) Paper Reference 1MA1/1F					
Mathematics Paper 1 (Non-Calculator) Foundation Tier					
You must have: Ruler graduated in protractor, pair of compasses, pen, Tracing paper may be used.					

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

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.











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(Total for Question 5 is 1 mark)

6 Harry is planning a holiday for 4 people for 7 days.

Here are the costs for the holiday for each person.

Travel	£150
Hotel	£50 for each day
Spending money	£250

Work out the total cost of the holiday for 4 people for 7 days.

(Total for Question	6	is 4	4 marks)
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7 In Adam's garden, the flowers are only red or white or yellow or blue.

The chart shows the number of red flowers, the number of white flowers and the number of yellow flowers.



The total number of flowers is 30

(a) Work out the number of blue flowers.

(b) Write down the mode.

(2)

(1)

(Total for Question 7 is 3 marks)



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11 Work out 74×58

(Total for Question 11 is 2 marks)





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13 The length of a line is *x* centimetres.

Write down an expression, in terms of x, for the length of the line in millimetres.

14 (a) Work out $\frac{1}{5}$ of 70

Fiona has to work out the exact value of $48 \div \frac{1}{2}$ She writes

$$48 \div \frac{1}{2} = 24$$

Fiona's reason is,

"There are 2 halves in 1, so there will be 24 halves in 48"

(b) Explain what is wrong with Fiona's reason.

(1)

(1)

(Total for Question 14 is 2 marks)

(Total for Question 13 is 1 mark)



(b) Work out the value of 5^3	(1)	
	(1)	
	(Total for Question 15 is 2 marks)	
(a) Expand $5(2m-3)$		
	(1)	
(b) Factorise $3n + 12$		
	(1) (Total for Question 16 is 2 marks)	



17 Stuart throws a biased coin 10 times. He gets 7 Tails. Maxine throws the same coin 50 times. She gets 30 Tails. Prasha is going to throw the coin once. (i) Whose results will give the better estimate for the probability that she will get Tails, Stuart's or Maxine's? You must give a reason for your answer. (1) (ii) Use Stuart's and Maxine's results to work out an estimate for the probability that Prasha will get Tails. (1) (Total for Question 17 is 2 marks)



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18 The diagram shows a rectangular garden path.	
	120 cm
600 cm	TE
Wasim is going to cover the path with paving stones. Each paving stone is a square of side 30 cm. Each paving stone costs £2.50	120 cm
Wasim has £220 to spend on paving stones. Show that he has enough money to buy all the paving stones he needs.	
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(Total for Question 18 is 4	marks)

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19 (a) Work out $\frac{2}{3} - \frac{1}{5}$ (b) Work out $\frac{2}{3} \times \frac{3}{4}$ Give your answer as a fraction in its simplest form.

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(2)

(2)

(Total for Question 19 is 4 marks)

20 Here are two squares, A and B. A B The length of the side of square **A** is 50% of the length of the side of square **B**. Express the area of the shaded region of square A as a percentage of the area of square B.% (Total for Question 20 is 3 marks) 14 P 5 4 1 5 5 A 0 1 4 2 4

21 There are 40 students in a class.Each student walks to school or cycles to school or gets the bus to school.

There are 22 girls in the class.9 of the girls walk to school.7 of the boys cycle to school.6 of the 10 students who get the bus to school are boys.

Find the number of these students who walk to school.

(Total for Question 21 is 4 marks)



22 There are only blue cubes, red cubes and yellow cubes in a box.

The table shows the probability of taking at random a blue cube from the box.

Colour	blue	red	yellow
Probability	0.2		

The number of red cubes in the box is the same as the number of yellow cubes in the box. (a) Complete the table.

There are 12 blue cubes in the box.

(b) Work out the total number of cubes in the box.

(2)

(2)

(Total for Question 22 is 4 marks)



23 Deon needs 50 g of sugar to make 15 biscuits.

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.

Deon has to buy all the butter she needs to make 60 biscuits. She buys the butter in $250 \,\text{g}$ packs.

(b) How many packs of butter does Deon need to buy?

(2)

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(3)

(Total for Question 23 is 5 marks)



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24 Find the highest common factor (HCF) of 72 and 90

(Total for Question 24 is 2 marks)



25 The diagram shows the plan, front elevation and side elevation of a solid shape, drawn on a centimetre grid.



In the space below, draw a sketch of the solid shape. Give the dimensions of the solid on your sketch.

(Total for Question 25 is 2 marks)







Find the value of c and the value of d.

c =

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d =

(Total for Question 26 is 3 marks)



27 A shop sells packs of black pens, packs of red pens and packs of green pens.

There are

2 pens in each pack of black pens5 pens in each pack of red pens6 pens in each pack of green pens

On Monday,

number of packs	number of packs .	number of packs $-7.2.4$
of black pens sold .	of red pens sold .	of green pens sold $= 7:3:4$

A total of 212 pens were sold.

Work out the number of green pens sold.

(Total for Question 27 is 4 marks)





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(Total for Question 28 is 4 marks)





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