Please check the examination deta	ails below	before ente	ering your can	didate information
Candidate surname			Other name	s
Pearson Edexcel Level 1/Level 2 GCSE (9–1)	Centre	e Number		Candidate Number
Thursday 6 Ju	ine	201	19	
Morning (Time: 1 hour 30 minute	es)	Paper R	eference 1	MA1/2F
Mathematics Paper 2 (Calculator) Foundation Tier				
You must have: Ruler graduated protractor, pair of compasses, pe 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 be used.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

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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	Answer ALL que	stions.
	Write your answers in the s	spaces provided.
	You must write down all the sta	ges in your working.
1	Write 0.75 as a fraction.	
		(Total for Question 1 is 1 mark)
2	Write the following numbers in order of size. Start with the smallest number.	
	-3 4 0	-1 2
		(Total for Question 2 is 1 mark)
3	Write down two factors of 15	, <u> </u>
3	while down two factors of 15	
		(Total for Question 3 is 1 mark)
4	Change 1756 grams to kilograms.	
		Iro
		(Total for Question 4 is 1 mark)



5 Write the number two million in figures.

(Total for Question 5 is 1 mark)

6 Dave goes into a cafe and buys 2 cups of coffee and a piece of cake.

Each cup of coffee costs $\pounds 2.75$ The cake costs $\pounds 2.90$

Dave pays with a £10 note.

He thinks he will get more than £1.50 in change.

Is Dave correct? You must show how you get your answer.

(Total for Question 6 is 3 marks)



3

7	There are <i>y</i> boats on a lake. There are 7 people in each boat.		
	Write an expression, in terms of y , for the total num	nber of people in the boats.	
		(Total for Question 7 i	s 1 mark)
8	(a) Simplify $a \times b \times 7$,
0	(a) Simplify $u \times b \times T$		
			(1)
	(b) Simplify $y \times y \times y$		
	(a) Simplify fully $e \times e \times e \times f$		(1)
	(c) Simplify fully $\frac{e \times e \times e \times f}{e \times e \times f \times f}$		
			(2)
		(Total for Question 8 is	4 marks)
	P 5 4 2 2 7	A 0 4 2 0	

9 The pictogram shows information about the number of vinyl records sold in a shop on Monday and on Tuesday.

Tuesday Wednesday	represents 8 vinyl records
Wednesday	
Thursday	

- (i) on Monday,
- (ii) on Tuesday.

On Wednesday and Thursday a total of 36 vinyl records were sold. The number of records sold on Thursday was 8 times the number of records sold on Wednesday.

(b) Use this information to complete the pictogram.

(3)

(1)

(1)

(Total for Question 9 is 5 marks)



5



P 5 4 2 2 7 A 0 6 2 0

12 Here is part of a train timetable.

Brighton	0722	0729	0732
London	0900	0832	0848

Graham gets to the station in Brighton at 0715

(a) Work out how many minutes he has to wait until 0722

(1) minutes

(b) Work out how long it will take the 0722 train to get to London.

(2)

(Total for Question 12 is 3 marks)



7

13 The diagram shows nine identical squares inside a rectangle.



The length of the rectangle is 12 cm.

Work out the width of the rectangle.

.....cm

(Total for Question 13 is 3 marks)





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Vrite the ratio $4.5: 2.25$ in the form $n: 1$		
	(Total for Question 14 i	s 1 mark)
A garden is in the shape of a rectangle $90 \mathrm{m}$ by $60 \mathrm{m}$.	90 m	
Towers are grown in 40% of the garden.		
The rest of the garden is grass.		60 m
Vork out the area of the garden that is grass.		

(Total for Question 15 is 4 marks)



......m²

DO NOT WRITE IN THIS AREA



P 5 4 2 2 7 A 0 1 0 2

16 Four biased coins, A, B, C and D are thrown.

17 There are 84 calories in 100 g of banana. There are 87 calories in 100 g of yogurt.

Priti has 60 g of banana and 150 g of yogurt for breakfast.

Work out the total number of calories in this breakfast.

(Total for Question 17 is 4 marks)



DO NOT WRITE IN THIS AREA

18 Machine A and machine B both make car parts.

Machine A makes 6 parts every 10 minutes. Machine B makes 13 parts every 15 minutes.

On Monday machine A makes parts for 12 hours machine B makes parts for 10 hours

Work out the total number of parts made by the two machines on Monday.

(Total for Question 18 is 4 marks)

A

19 Here is a plan of a kitchen drawn to a scale of 1:30

D CScale 1:30 Sam is going to put a small table in the kitchen. The table has to be more than $180 \,\mathrm{cm}$ from A more than $150 \,\mathrm{cm}$ from BCShow, by shading on the diagram, the region where Sam can put the table. (Total for Question 19 is 4 marks)



Turn over 🕨

В



P 5 4 2 2 7 A 0 1 4 2 0



21 On the grid below, draw the graph of y = 2x - 3 for values of x from -2 to 4

(Total for Question 21 is 3 marks)



DO NOT WRITE IN THIS AREA

22 Hannah is planning a day trip for 195 students.

She asks a sample of 30 students where they want to go. Each student chooses one place.

The table shows information about her results.

Place	Number of students
Theme Park	10
Theatre	5
Sports Centre	8
Seaside	7

(i) Work out how many of the 195 students you think will want to go to the Theme Park.

(2)

(ii) State any assumption you made and explain how this may affect your answer.

(1)

(Total for Question 22 is 3 marks)





The container is $\frac{2}{3}$ full of water. A cup holds 275 m*l* of water.

What is the greatest number of cups that can be completely filled with water from the container?

(Total for Question 23 is 4 marks)







26 £360 is shared between Abby, Ben, Chloe and Denesh. The ratio of the amount Abby gets to the amount Ben gets is 2:7 Chloe and Denesh each get 1.5 times the amount Abby gets. Work out the amount of money that Ben gets.

(b) Write 1.452×10^3 as an ordinary number.



£.....

(1)

(1)

(Total for Question 26 is 4 marks)

DO NOT WRITE IN THIS AREA

28
 Here are the first five terms of a Fibonacci sequence.
 3
 3
 6
 9
 15

 (a) Write down the next two terms of the sequence.
 (1)
 (1)
 (1)

 The first three terms of a different Fibonacci sequence are
 (1)
 (1)

 (b) Find the 6th term of this sequence.
 (2)
 (2)

 (b) Find the 6th term of this sequence.
 (2)
 (2)

 (c) Total for Question 28 is 3 marks)
 (2)

 29
 a =
$$\begin{pmatrix} 4 \\ 5 \end{pmatrix}$$
 b = $\begin{pmatrix} 3 \\ 2 \end{pmatrix}$

 Work out a - 2b as a column vector.
 (1)

 (Total for Question 29 is 2 marks)

 (Total for Question 29 is 2 marks)

P 5 4 2 2 7 A 0 2 0 2 0