Please check the examination deta	ils below	before ente	ring your cand	lidate information	
Candidate surname			Other names		
Pearson Edexcel Level 1/Level 2 GCSE (9–1)	Centre	e Number		Candidate Numbe	er
Tuesday 5 No	vei	nbe	r 201	19	
Morning (Time: 1 hour 30 minutes) Pa		Paper Reference 1MA1/1F			
Mathematics Paper 1 (Non-Calculato Foundation Tier	or)				
You must have: Ruler graduated protractor, pair of compasses, pe Tracing paper may be used.				tres,	arks

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.











\bigcap	Answer ALL question	ons.			
Write your answers in the spaces provided.					
	You must write down all the stages in your working.				
1	Write down the value of the 7 in the number 1074				
		(Total for Question 1 is 1 mark)			
2	Write 4.58 correct to 1 decimal place.				
_		(Total for Question 2 is 1 mark)			
3	Work out 31.7×100				
_		(Total for Question 3 is 1 mark)			
4	Write the fraction $\frac{28}{70}$ in its simplest form.				
	70				
		(Total for Question 4 is 1 mark)			
5	Write 15% as a decimal.				
		(Total for Question 5 is 1 mark)			

6 The pictogram shows information about the number of pictures sold in an art shop in each of January, February and March.

January	
February	Key:
March	represents 8 pictures
April	

- (a) Write down the number of pictures sold in January.
- 12 pictures were sold in April.(b) Show this information on the pictogram.
 - (c) What was the total number of pictures sold in these four months?

(2)

(1)

(1)

(Total for Question 6 is 4 marks)

7 Work out the difference, in minutes, between 1 hour 25 minutes and $1\frac{1}{4}$ hours.

minutes



8	Prasha has five blocks of wood.		
	The total weight of all five blocks of wood is 3 kilograms. 4 of the blocks of wood each have a weight of 650 grams.		
	Work out the weight, in grams, of the other block of wood.		
	PQR is a straight line. $P \xrightarrow{100^{\circ} 35^{\circ}} R$ Work out the size of angle x.		
	(Total for Question 9 is 2 marks)		
	$\begin{array}{c} 4 \\ \\ \boxed{1} \boxed{1} \boxed{1} \boxed{1} \boxed{1} \boxed{1} \boxed{1} \boxed{1}$	/ &	



DO NOT WRITE IN THIS AREA

12 Rehan is on holiday in the USA.

He has \$200 to spend on clothes.

Rehan buys

1 pair of trainers costing \$60 3 T-shirts costing \$25 each.

He also wants to buy a jacket costing \$80

(a) Has Rehan got enough money to buy the jacket? You must show how you get your answer.

The trainers cost \$60 The exchange rate is 1 = £0.749

Rehan says, "The trainers cost less than £40"

Rehan is wrong.

(b) Using a suitable approximation, show working to explain why.

(2)

(3)

(Total for Question 12 is 5 marks)



13 (a) Simplify $2a \times 5b$		
(h) Simplify $2m + 2m + 5m$		(1)
(b) Simplify $3x + 2y + 5x - y$		
		(2)
	(Total for Question	13 is 3 marks)
14 Work out 23×15		
	(Total for Question	14 is 2 marks)



16 Steve drove from his home to his friend's house. He stayed at his friend's house and then drove home.

Here is Steve's travel graph.



...... minutes (1)

(b) What was Steve's average speed on his journey home?

(Total for Question 16 is 3 marks)



17 x - 1 = 2

Work out the value of $2x^2$

(Total for Question 17 is 3 marks)



18 The pie charts show information about the favourite animal of each student at school A and of each student at school B.



There are 480 students at school A.

There are 760 students at school **B**.

Henry says,

"The same number of students at each school have tigers as their favourite animal."

Is Henry correct?

You must show how you get your answer.

(Total for Question 18 is 4 marks)



Turn over 🕨



P 5 8 8 6 5 A 0 1 2 2

21 There are 60 people in a choir. Half of the people in the choir are women.

The number of women in the choir is 3 times the number of men in the choir. The rest of the people in the choir are children.

the number of children in the choir : the number of men in the choir = n : 1

Work out the value of *n*. You must show how you get your answer.

n =

(Total for Question 21 is 4 marks)

22 Work out $1\frac{3}{4} \times 1\frac{1}{3}$

Give your answer as a mixed number.

(Total for Question 22 is 3 marks)



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23 Use a ruler and compasses to construct the line from the point <i>P</i> perpendicular to the line <i>CD</i>. You must show all construction lines.
$\times P$
CD
(Total for Question 23 is 2 marks)
14 P 5 8 8 6 5 A 0 1 4 2 0



ADB is a straight line.

the size of angle DCB: the size of angle ACD = 2:1

Work out the size of angle BDC.

(Total for Question 24 is 4 marks)



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25 4 red bricks have a mean weight of 5 kg.5 blue bricks have a mean weight of 9 kg.

1 green brick has a weight of 6 kg.

You must show how you get your answer.

"The mean weight of the 10 bricks is less than 7 kg."

Donna says,

Is Donna correct?

26 (a) Simplify $(p^2)^5$

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(1) (b) Simplify $12x^7y^3 \div 6x^3y$ (2) (Total for Question 26 is 3 marks)





Aleena sails her boat from port P on a bearing of 070°

She sails for $1\frac{1}{2}$ hours at an average speed of 12 km/h to a port Q. Find

- (i) the distance, in km, of port Q from lighthouse L,
- (ii) the bearing of port Q from lighthouse L.

0

distance *QL* = km

bearing of Q from L =

(Total for Question 27 is 5 marks)

28 The diagram shows triangle *AOB*.



Angle *AOB* is **not** an obtuse angle.

Find the greatest value of *x*. You must show all your working.

(Total for Question 28 is 3 marks)



