Write your name here	
Surname	Other names
Pearson Edexcel Level 1/Level 2 GCSE (9 - 1)	Candidate Number
Mathamatica)
Mathematics Paper 1 (Non-Calculator)	
	Foundation Tier
	Paper Reference
Paper 1 (Non-Calculator)	

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.



Answer ALL questions.

Write your answers in the spaces provided.

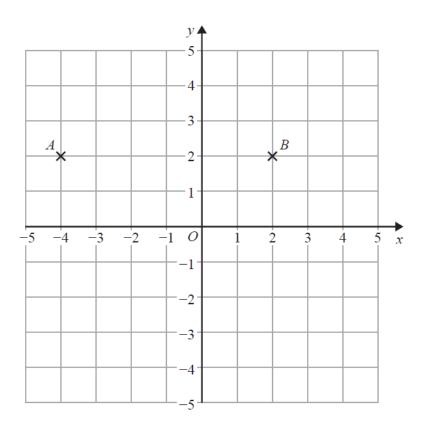
You must write down all the stages in your working.

			4 –	4 1	0 –2			
					••			. .
					(Total for (Question 1 is	3 1 r
Here are f There is a	our cards.	each card	1.					
	7		8		4		9	
(a) Write	down the	argest 4-c	ligit numbe	er that ca	an be made	using each	card only on	ice.
(b) Write once.	down the	smallest 4	-digit even	number	that can be	made usin	g each card o	only
					Γ)	Total for Q	uestion 2 is	2 m
Write $\frac{7}{}$ a	as a percent	age.						
20								

£

(Total for Question 4 is 2 marks)

5



(a) On the grid, mark with a cross (\times) the point (-2, -3). Label the point C.

(1)

(b) Write down the coordinates of the midpoint of AB.

(.....)

(1)

(Total for Question 5 is 2 marks)

pen	32p
pencil	8p
ruler	17p

Rosie has £15 to spend on pens and pencils.

She has to buy the same number of pens as pencils.

What is the greatest number of pens she can buy?

(Total for Question 6 is 3 marks)

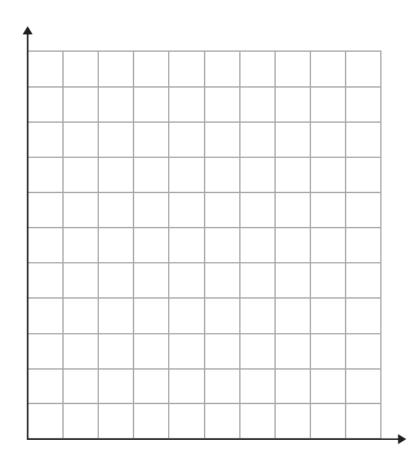
7 Here are the ages of 16 men.

28	30	40	37	35	31	29	39
34	33	35	28	40	29	27	35

(a) Complete the table to show this information.

Age	Tally	Frequency
27–29		
30–32		
33–35		
36–38		
39–41		

(b) On the grid, draw a suitable diagram or chart for the information in the table.



(3)

(2)

(Total for Question 7 is 5 marks)

8	The stem and	leaf diagram	shows inform	ation about th	ie heights, i	in cm. c	of the boys i	n a class.

	14	0	2	9				
•	15	1	1	1 3		7		
•	16	2	4	5	7	8	9	
•	17	6 6		7	9			
	18	0	0	1				

Key: 15 | 1 represents 151 cm

(Total for Question 8 is 3 marks)

(a) Find the median h	reioht.

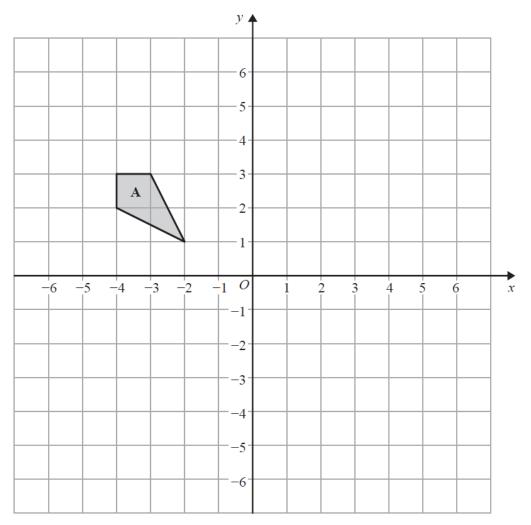
	C			
				cm
				(1)
The girls in the clas Their heights have a	ss have a median heiga range of 45 cm.	ght of 162 cm.		
heights of the g	girls.		vith the distribution of	
				(2)

9 The formulae below can be used to work out the cost, $\pounds C$, of a taxi journey of x miles with three different taxi companies.

Reliable TaxisSpeedy TaxisCity Taxis
$$C = 1.5x$$
 $C = 1.1x + 11.5$ $C = 1.25x + 8$

Which is the cheapest company to use for a taxi journey of 30 miles? You must show how you get your answer.

(Total for Question 9 is 3 marks)



(a) On the grid, translate shape **A** by the vector $\begin{pmatrix} 6 \\ -5 \end{pmatrix}$ Label the new shape **B**.

(b) On the grid, translate shape **B** by the vector $\begin{pmatrix} -8 \\ 8 \end{pmatrix}$ Label the new shape **C**. (1)

(c) Write down the column vector for the translation that maps shape \boldsymbol{A} onto shape \boldsymbol{C} .

(1)

(1)

(Total for Question 10 is 3 marks)

11	(a)	Simplify	x + x + x + y + y
----	-----	----------	-------------------

(1)

(b) Simplify 3p + 7q - p - 4q

.....

(2)

(c) Expand 6(2m-3)

.....

(d) Solve 7f + 6 = 27

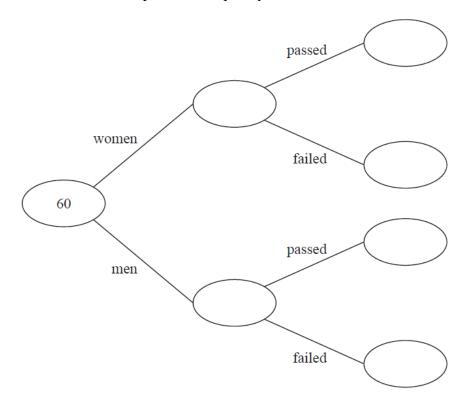
f=.....

(2)

(1)

(Total for Question 11 is 6 marks)

- 12 60 people each took a driving test one day.
 - 21 of these people were women.
 - 18 of the 60 people failed their test.
 - 27 of the men passed their test.
 - (a) Use this information to complete the frequency tree.



One of the men is chosen at random.

(b) Work out the probability that this man failed his test.

.....

(2)

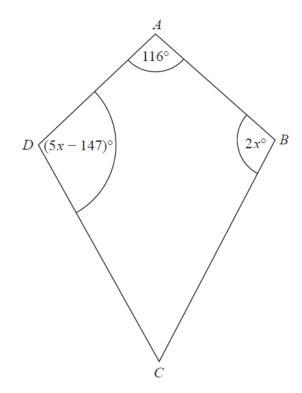
(3)

(Total for Question 12 is 5 marks)

13	This shape is made from two rectangles.		
	2.05 cm 2.15 cm		5.02 cm
	(a) Work out an estimate for the total a	7.37 cm rea of the shape.	
	(b) Is your answer to (a) an overestimate Give a reason for your answer.	te or an underestimate?	cm ² (3)
		(Total	(1) for Question 13 is 4 marks)
14	A cafe sells cakes and scones.		
	On Tuesday, the ratio of the number of on Tuesday, the cafe sold 80 scones.	cakes sold to the number	of scones sold was 5:2
	How many cakes were sold on Tuesday	?	

(Total for Question 14 is 2 marks)

15 ABCD is a kite with AD = AB



Find the size of the smallest angle of the kite.

.....

(Total for Question 15 is 4 marks)

16 Change 4500 mm³ into cm³.

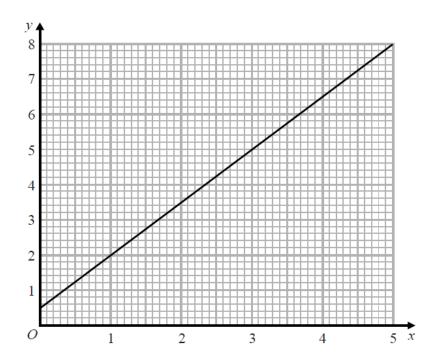
.... cm³

(Total for Question 16 is 2 marks)

17 Work out $2\frac{3}{5} - 1\frac{5}{6}$

.....

(Total for Question 17 is 3 marks)



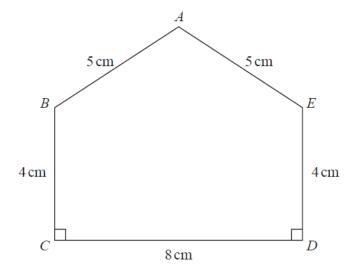
Phone calls cost £ y for x minutes.

The graph gives the values of y for values of x from 0 to 5

							•••••	•••••	• • • • • • • •	•••••	••••••	•••••	••••••	•••••	(3)
					the stra								•••••		(2)
	••••••	 •••••	•••••			 	•••••	•••••		•••••					
` '				-	ation (-			-					

(Total for Question 18 is 5 marks)

19 ABCDE is a pentagon.



Work out the area of ABCDE.

(Total for Question 19 is 5 marks)

Tarek's train left Manchester at 08 35 It got to London at 11 05 The train travelled at an average speed of 110 miles per hour.
On Wednesday, Gill travelled by train from Manchester to London.
Gill's train also left at 08 35 but was diverted. The train had to travel an extra 37 miles. The train got to London at 11 35
Work out the difference between the average speed of Tarek's train and the average speed of Gill's train.
miles per hour
(Total for Question 20 is 4 marks)

On Monday, Tarek travelled by train from Manchester to London.

20

		1.8 m	
	6 m		
Frank is going to cover the wall versus Each tile is 60 cm by 30 cm. $\frac{3}{5}$ of the tiles will be white. Some of the tiles will be green. The rest of the tiles will be blue.			
The ratio of the number of green	tiles to the number of	`blue tiles will be 1 : 3	
(a) Assuming there are no gaps b	between the tiles, how	many tiles of each colour will Frank need	d?
		white tiles	
		green tiles	
		blue tiles	
		(5)	
Frank is told that he should leave	gaps between the tile	es.	
(b) If Frank leaves gaps between needs?	the tiles, how could t	this affect the number of tiles he	
		(1)	
		(1) (Total for Question 21 is 6 marks)	

The diagram shows a rectangular wall.

21

On Monday Ria delivered a parcel to a hospital.
The travel graph represents Ria's journey to the hospital.



Ria left home at 13 00 She drove for 30 minutes at a constant speed of 40 mph. She then stopped for a break.

Ria then drove to the hospital at a constant speed. She was at the hospital for 30 minutes. She then drove home at a constant speed of 32 mph.

Show that she does not arrive home before 16 30

(Total for Question 22 is 4 marks)

23	A number, <i>y</i> , is rounded to 2 significant figures.			
	The result is 0.46			
	Write down the error interval for <i>y</i> .			
		(Total for Question 23 is 2 marks)		
24	Write 360 as a product of its prime factors.			
		(Total for Question 24 is 3 marks)		
		(======================================		

TOTAL FOR PAPER: 80 MARKS