Please check the examination details below before entering your candidate information				
Candidate surname			Other name	5
Pearson Edexcel Level 1/Level 2 GCSE (9–1)	Centre	Number		Candidate Number
Tuesday 5 November 2019				
Morning (Time: 1 hour 30 minute	es)	Paper Re	eference 1	MA1/1F
Mathematics				
Paper 1 (Non-Calculator) Foundation Tier				
You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser. 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.











	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)	
	NV 1 × 21.7 100		
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)	
		(Total for Question 5 is 1 mark)	
	•		

Answer ALL questions.

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.
- (1)
 12 pictures were sold in April.
 (b) Show this information on the pictogram.
 (1)
 (c) What was the total number of pictures sold in these four months?

(2)

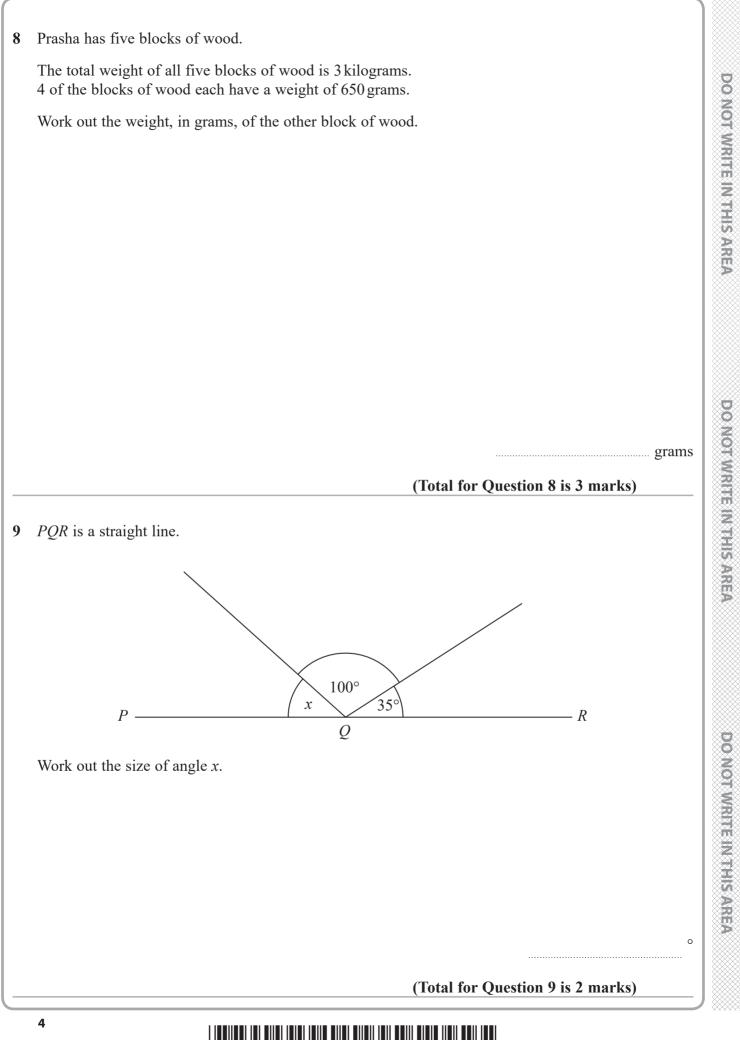
(Total for Question 6 is 4 marks)

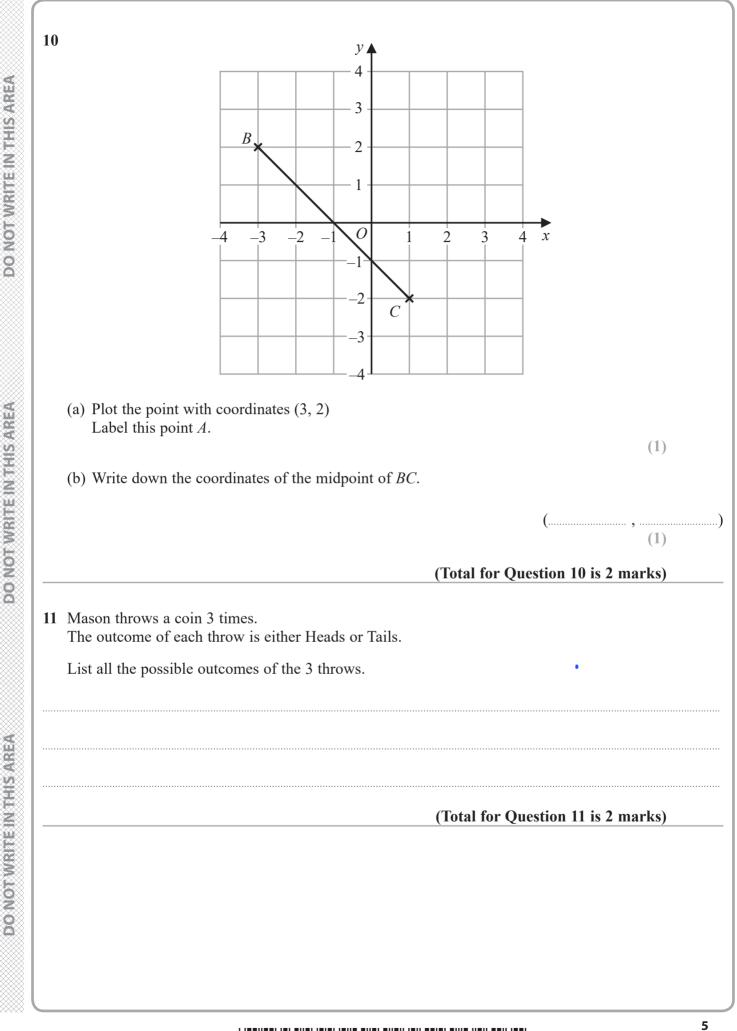
7	Work out the difference, in minutes, between 1 hour 25 minutes and $1\frac{1}{4}$ hours.
	minutes



3

DO NOT WRITE IN THIS AREA





P 5 8 8 6 5 A 0 5 2 0

DO NOT WRITE IN THIS AREA

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.

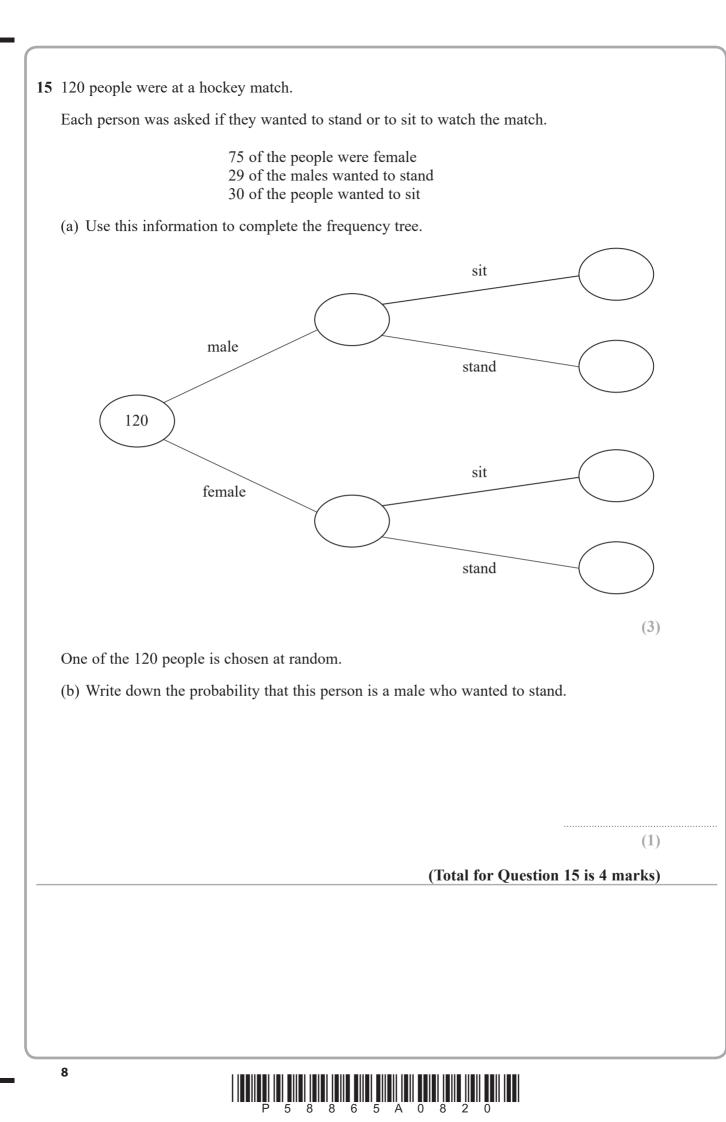
(2)

(Total for Question 12 is 5 marks)



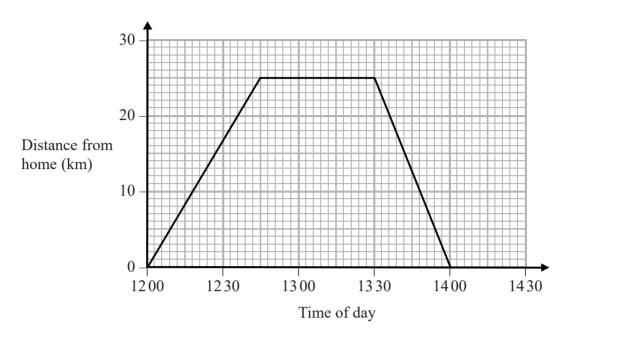
DO NOT WRITE IN THIS AREA

13 (a) Simplify $2a \times 5b$
(b) Simplify $3x + 2y + 5x - y$
(2) (Total for Question 13 is 3 marks)
14 Work out 23 × 15
7 $ \blacksquare \blacksquare$



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.



(a) For how many minutes did Steve stay at his friend's house?



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

...... km/h (2)

(Total for Question 16 is 3 marks)



17	<i>x</i> -	- 1 =	= 2
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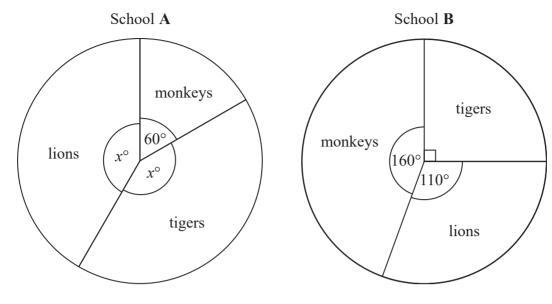
Work out the value of $2x^2$

(Total for Question 17 is 3 marks)

DO NOT WRITE IN THIS AREA



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)





 Image: Non-State
 Image: Non-State<

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.

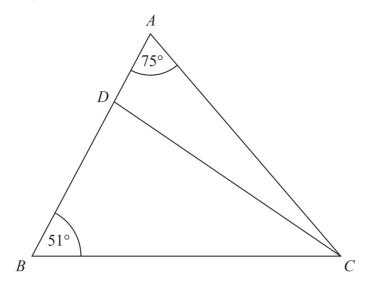
(Total for Question 22 is 3 marks)



23 Use a ruler and comp You must show all co	passes to construct the line from the point P perpendicular to the line CD .	
	$\times P$	DO NOT WRITE IN THIS AREA
C	<i>D</i>	DO NOT WRITE IN THIS AREA
	(Total for Question 23 is 2 marks)	AREA DO NOT WRITE IN THIS AREA
14		AREA

N

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)



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. Donna says, "The mean weight of the 10 bricks is less than 7 kg." Is Donna correct? You must show how you get your answer. (Total for Question 25 is 3 marks)



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

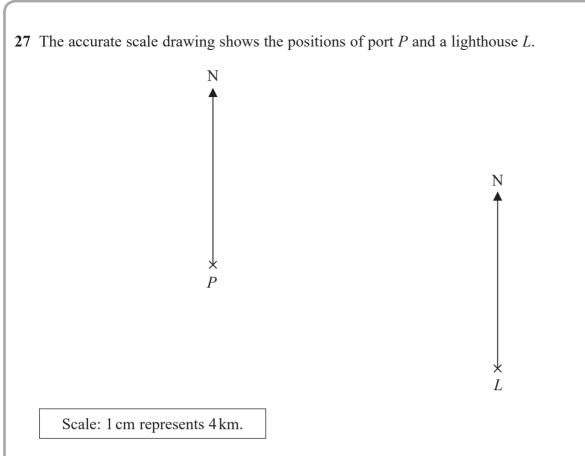
(b) Simplify $12x^7y^3 \div 6x^3y$

(2)

(1)

(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

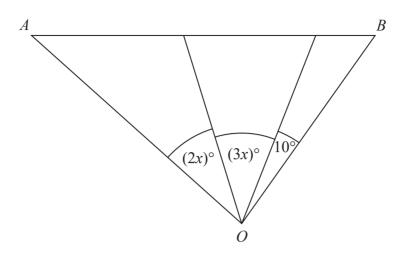
distance *QL* = km

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)



