Please check the examination deta	ils below	before ente	ring your can	didate information
Candidate surname			Other name:	5
Pearson Edexcel Level 1/Level 2 GCSE (9–1)	Centre	e Number		Candidate Number
Tuesday 6 No	vei	nbe	er 20	18
Morning (Time: 1 hour 30 minute	es)	Paper Re	eference <b>1</b>	MA1/1F
<b>Mathematics</b> Paper 1 (Non-Calculato Foundation Tier	or)			
You must have: Ruler graduated protractor, pair of compasses, pe Tracing paper may be used.				etres, Total Marks

### 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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	Answer ALL questions.
	Write your answers in the spaces provided.
	You must write down all the stages in your working.
1	Write the following numbers in order of size. Start with the smallest number.
	0.4 0.02 0.37 0.152 0.2
	(Total for Question 1 is 1 mark)
2	Write 0.6 as a percentage.
	•⁄⁄0
-	(Total for Question 2 is 1 mark)
3	Here is a list of numbers.
	3 5 7 12 15 18 20
	From the list, write down a factor of 10
_	(Total for Question 3 is 1 mark)
4	Write 7829 to the nearest 1000
	(Total for Question 4 is 1 mark)
	$\begin{array}{c} 2 \\   1 1 1 1 1 1 1 1$

5 (a) Work out  $3 \times 5 + 7$ 

(b) Work out  $2^3$ 

(c) Write brackets () in this statement to make it correct.

$$7 \times 2 + 3 = 35$$

(1)

(1)

(1)

#### (Total for Question 5 is 3 marks)

6 Sue has 2 cats.

Each cat eats  $\frac{1}{4}$  of a tin of cat food each day.

Sue buys 8 tins of cat food.

Has Sue bought enough cat food to feed her 2 cats for 14 days? You must show how you get your answer.

(Total for Question 6 is 3 marks)



3

7 There are only apple trees, cherry trees, pear trees and plum trees in an orchard.

The pictogram shows information about the numbers of apple trees, cherry trees and pear trees in the orchard.



There is a total of 30 trees in the orchard.

Complete the pictogram.

(Total for Question 7 is 3 marks)







5

g = 9 h = 4	
Work out the value of $2g + 3h$	
	(Total for Question 9 is 2 marks)
Write down two prime numbers that have a sur	m of 32
-	
	(Total for Question 10 is 2 marks)

	octions.	(	10	10	15	
	$\frac{9}{12}$	$\frac{6}{8}$	$\frac{18}{24}$	$\frac{10}{16}$	$\frac{15}{20}$	
One of these fract	tions is <b>not</b> equ	ivalent to	$\frac{3}{4}$			
(a) Which fractio	n?					
	1 5					(1)
(b) Work out	$\frac{1}{12} + \frac{3}{6}$					
						(2)
				(Total f	for Question 11	

P 5 5 5 8 3 A 0 7 2 4

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12 Tom uses his lorry to deliver bricks.

You can use this graph to find the delivery cost for different distances.



13 Azmol, Ryan and Kim each played a game.

Azmol's score was four times Ryan's score. Kim's score was half of Azmol's score.

Write down the ratio of Azmol's score to Ryan's score to Kim's score.

(Total for Question 13 is 2 marks)



14 The diagram shows quadrilateral ABCD with each of its sides extended.



#### AB = AD

Show that *ABCD* is a kite. Give a reason for each stage of your working.

(Total for Question 14 is 4 marks)



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**15** Shahid is going to use these instructions to make a fizzy drink.

Mix 5 parts of orange juice with 2 parts of lemonade

Shahid thinks that he has 300 ml of orange juice and 200 ml of lemonade.

(a) If Shahid is correct, what is the greatest amount of fizzy drink he can make?

Shahid has 300 ml of orange juice but he only has 160 ml of lemonade.

(b) Does this affect the greatest amount of fizzy drink he can make? Give a reason for your answer.

(1)

..... m*l* 

(3)

(Total for Question 15 is 4 marks)





- 17 80 people are asked if they like coffee.
  - 48 of these people are women.61 of the 80 people like coffee.8 of the men do **not** like coffee.
  - (a) Use this information to complete the frequency tree.



One of the people who like coffee is chosen at random.

(b) Find the probability that this person is a woman.

(2)

(Total for Question 17 is 5 marks)



13

18 Food Mart and Jan's Store sell boxes of the same type of breakfast cereal.

Each shop has a special offer.



Which box of cereal is the better value for money? You must show your working.

(Total for Question 18 is 4 marks)



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19



Rotate shape A  $180^{\circ}$  about (1, 0)

(Total for Question 19 is 2 marks)



P 5 5 5 8 3 A 0 1 6 2 4

22 A bonus of £2100 is shared by 10 people who work for a company. 40% of the bonus is shared equally between 3 managers. The rest of the bonus is shared equally between 7 salesmen.

One of the salesmen says,

"If the bonus is shared equally between all 10 people I will get 25% more money."

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

(Total for Question 22 is 5 marks)



Turn over 🕨

It would take 120 minutes to fill a swimming pool using water from 5 taps.	
(a) How many minutes will it take to fill the pool if only 3 of the taps are used?	
	minutes
	(2)
(b) State one assumption you made in working out your answer to part (a).	
	(1)
(Total for Question 23	is 3 marks)
<ul><li>A plane travels at a speed of 213 miles per hour.</li><li>(a) Work out an estimate for the number of seconds the plane takes to travel 1 m</li></ul>	
	seconds (3)
(b) Is your answer to part (a) an underestimate or an overestimate? Give a reason for your answer.	
	(1)
	is 4 marks)

$$5x + y = 21$$
$$x - 3y = 9$$



19

*x* = .....

*y* = .....

(Total for Question 25 is 3 marks)





AB is the diameter of the semicircle. AC is an arc of a circle with centre B.

Show that  $\frac{\text{area of shaded region}}{\text{area of square}} = \frac{\pi}{8}$ 

27 Amina has two bags.

In the first bag there are 3 red balls and 7 green balls. In the second bag there are 5 red balls and 4 green balls.

Amina takes at random a ball from the first bag. She then takes at random a ball from the second bag.

(a) Complete the probability tree diagram.





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28 The size of each interior angle of a regular polygon is 11 times the size of each exterior angle.Work out how many sides the polygon has.

(Total for Question 28 is 3 marks)

## TOTAL FOR PAPER IS 80 MARKS



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