Please check the examination details bel	ow before ent	tering your candidate information		
Candidate surname		Other names		
Centre Number Candidate	Number			
Edexcel Mock Te	st Pa	pers-Paper2		
Test1	Paper	2F		
Time 1 hour 30 minutes				
Mathematics				
PAPER 2 (Calculator)				
Foundation Tier				
You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator, Formulae Sheet (enclosed). Tracing paper may be used. 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 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

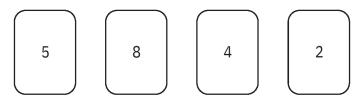
- Read each question carefully before you start to answer it.
 Try to answer every question.
- Check your answers if you have time at the end.



			Answ	er ALL que	stions.		
		Wri			spaces provid	ed.	
					ages in your w		
		Tou mu	or write dow	man ino su	ages in your w	onang.	
1	Write the following n Start with the smalle	umbers in o st number.	rder of size.				
		-9	6	0	-4	-3	
					(Total fo	or Question 1 is 1 mark)	
_					(Total IC	or Question 115 1 mark)	
2	Write 75% as a fra	ction.					
					(Total fo	or Question 2 is 1 mark)	
_							
3	Write down the 9th	odd numb	er.				
_					(Total fo	or Question 3 is 1 mark)	
4	Change 84 centime	tres to mil	limetres.				
	Ü						
							millimetres
					(Total fo		
_					(10เลเา	or Question 4 is 1 mark)	



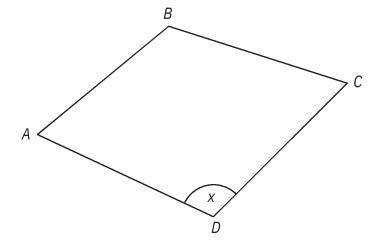
5 Here are four cards. There is a number on each card.



Write down the smallest 4-digit even number that can be made using each card only once.

(Total for Question 5 is 1 mark)

6 Here is a quadrilateral ABCD.



(a) Measure the length of the side *BC*. Give your answer in centimetres.

centimetres

(b) Measure the size of the angle marked x.



(Total for Question 6 is 2 marks)

7 Isaac writes down the distance readings from his car at the start and end of a journey.

Start of journey

	1	5	3	7	9	miles
--	---	---	---	---	---	-------

End of journey

1	8	8	7	5	miles
---	---	---	---	---	-------

Isaac knows that the cost of petrol for this journey is 19p per mile.

Work out the total cost of the petrol used for this journey. Give your answer in pounds.

C

(Total for Question 7 is 4 marks)

8 Rachel wants to hire a van.
She uses this rule to work out the cost of hiring a van for a number of days.

Cost = £59
$$\times$$
 number of days

Rachel is going to hire the van for 12 days.

Work out the cost.

.

(Total for Question 8 is 2 marks)

9 The table shows information about the number of students who arrived late at school each day one week.

	Number of
	students
Monday	19
Tuesday	13
Wednesday	9
Thursday	5
Friday	2

On the grid, draw a bar chart for this information.

(Total for Question 9 is 3 marks)

10Here is part of a bus timetable between Preston and Chorley.

Preston	07 15	07 35	07 50		
Leyland	07 44	08 04	08 19		
Euxton	07 55	08 09	08 15	08 24	08 31
Hartwood	08 04	08 15	08 24	08 32	08 39
Southgate	08 09	08 29	08 36	08 43	08 53
Chorley	08 27	08 46	08 53	09 00	09 10

(a) How many minutes should the 07 15 bus take to go from Preston to Hartwood?

 	minutes
(2)	

Bob goes from Leyland to Chorley by bus.

One day, Bob leaves his house at 08 00.

He takes 6 minutes to walk to the bus stop in Leyland.

He takes 12 minutes to walk from the bus stop in Chorley to work.

Bob needs to be at work for 09 15.

(b) Will Bob get to work for 09 15?

You must show how you get your answer.

(3)

(Total for Question 10 is 5 marks)



236 people go on a school trip.

The people on the trip are either adults or children.

There are 18 adults on the trip.

40% of the children on the trip are wearing a hat.

Find the number of children on the trip who are not wearing a hat.

(Total for Question 11 is 4 marks)

12 (a) Work out $\frac{6}{7}$ of 133

(2)

(b) Write the following fractions in order of size. Start with the smallest fraction.

5 -12 $\frac{7}{24}$

<u>3</u>

11 36

.....(2

(Total for Question 12 is 4 marks)

13 A shop has two different special offers on juice.



Pay for 2 bottles get 1 bottle free



2 litres £2.60

Pay for 1 bottle get 1 bottle half price

Which offer gives the better value for money? You must show how you get your answer.

(Total for Question 13 is 4 marks)

14 (a) Simplify 9c + 8d + 4c - 4d

(2)	

(b) Solve 5(5m + 9) = 50

There are a apples in a basket.

There are b apples in a bag.

(c) Write an expression, in terms of a and b, for the total number of apples in 4 baskets and 3 bags.



(Total for Question 14 is 7 marks)

15 Alia asked her friends how many books they each have in their collection. Here are her results.

62, 78, 54, 63, 81, 77, 85, 56, 72, 64, 90, 88, 74, 81, 95, 79, 100

(a) Show this information in a stem and leaf diagram.



(b) Find the median number of books.

(2)

(3)

(Total for Question 15 is 5 marks)

	ol. of the pool.	s to fill the pool	arough each of the tanks that takes 5 of the tanks 10 hours many hours it would take 8	It
hours				

(Total for Question 16 is 3 marks)

17 The table shows information about the weights of 60 students.

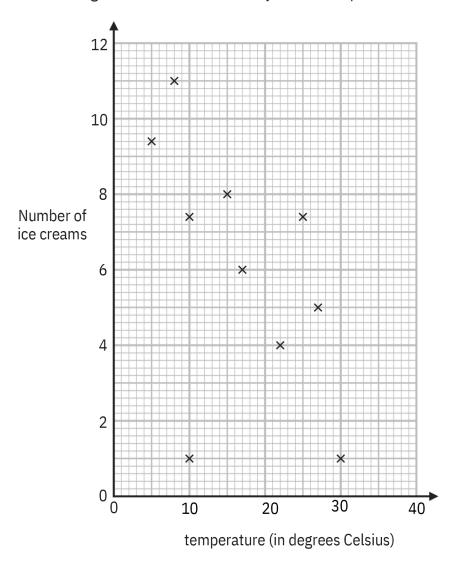
Weight (w kg)	Frequency
40 < w ≤ 50	10
50 < w ≤ 60	15
60 < w ≤ 70	20
70 < w ≤ 80	12
80 < w ≤ 90	3

Work out an estimate for the mean weight of the students.

0100
 cm

(Total for Question 17 is 3 marks)

18 The scatter graph shows information about the temperature (in degrees Celsius), and the number of ice creams sold in ten English towns on the same day. One of the points is an outlier.



One of the points is an outlier.

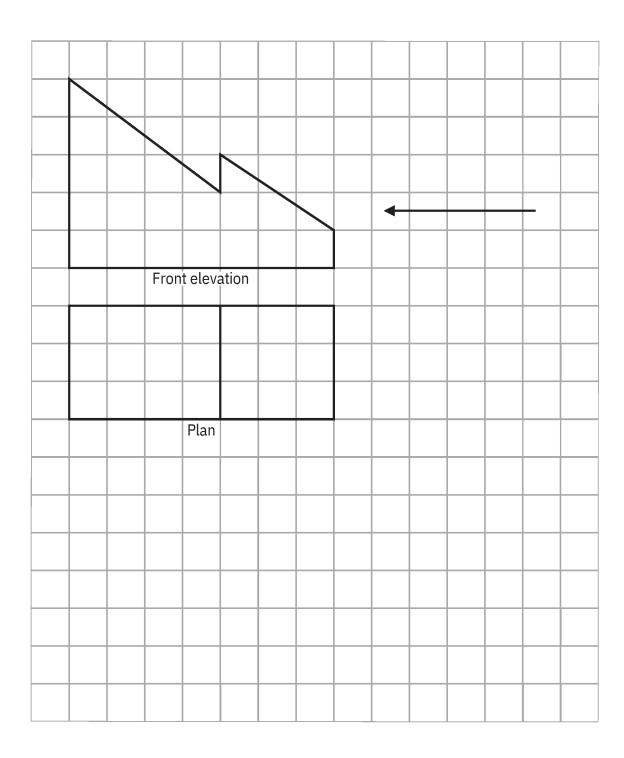
(a) Write down the coordinates of this point.

(,)
		(1)	

(b)	Ignoring the outlier, describe the relationship between the temperature and the nur creams sold.	mber of ice
		(1)
	On the same day in another English town, the temperature was 25°C.	
	(c) Using the scatter graph, estimate the number of ice creams sold in this town on	
1	this day.	
		(2)
	(Total for Question 18 is 4 marks)	

19 The front elevation and the plan of a solid are shown on the grid.

On the grid, draw the side elevation of the solid from the direction of the arrow.



(Total for Question 19 is 2 marks)

20 Here are the first five terms of an arithmetic sequence.

12 18 24 30 36

(a) Find an expression, in terms of n, for the nth term of this sequence.

(2)

The nth term of a different sequence is 10 - 5n

(b) Is -30 a term of this sequence? You must show how you get your answer.

(2)

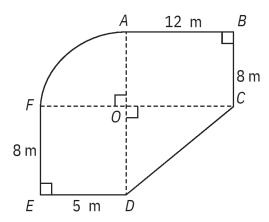
(Total for Question 20 is 4 marks)

21 The diagram shows a plan of Ryan's garden.

ABCO and DEFO are rectangles.

CDO is a right-angled triangle.

AFO is a sector of a circle with centre O and angle $AOF = 90^{\circ}$



Ryan is going to cover his garden with grass seed.

Each bag of grass seed covers 15 m2 of garden.

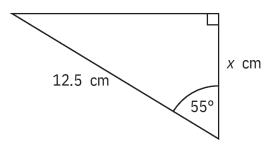
Each bag of grass seed costs £15.95

Work out how much it will cost Ryan to buy all the bags of grass seed he needs.

£

(Total for Question 21 is 5 marks)

22



Work out the value of x. Give your answer correct to 3 significant figures.

X =	 	

(Total for Question 22 is 2 marks)

23 Mary invests £5000 for 3 years in an account paying compound interest.

In the first year, the rate of interest is 4%

In the second year, the rate of interest is 2.5%

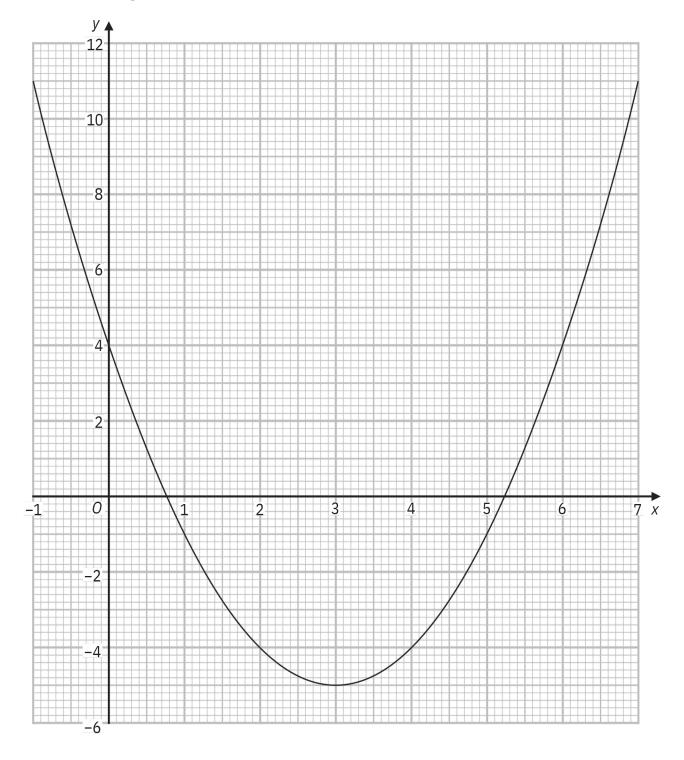
In the third year, the rate of interest is 3%.

Work out the value of Mary's investment at the end of 3 years.

£.....

(Total for Question 23 is 3 marks)

Here is the graph of $y = x^2 - 6x + 3$



(a) Write down the y intercept of the graph of $y = x^2 - 6x + 3$

(1)

(b) Write down the coordinates of the turning point of the graph of $y = x^2 - 6x + 3$

(1)

(c) Use the graph to find estimates for the roots of $x^2 - 6x + 3 = 0$

(2)

(Total for Question 24 is 4 marks)

25 (a) Find the value of the reciprocal of 0.9	
	(1)
x = 5800 correct to 2 significant figures.	
(b) Complete the error interval for x .	
	□ x <

22

(Total for Question 25 is 3 marks)



26 The price of a car increased by 12% between 2020 and 2021. The price of the car in 2021 was £28,000. Calculate the price of the car in 2020.

(Total for Question 26 is 2 marks)

TOTAL FOR PAPER IS 80 MARKS