Please check the examination details belo	ow before ente	ering your candidate information
Candidate surname		Other names
Centre Number Candidate	Number	
Edexcel Mock Test Papers-Paper2		
Test2	Paper	2F
Time 1 hour 30 minutes		
Mathematics		
PAPER 2 (Calculator)		
Foundation Tier		
You must have: Ruler graduated in contractor, pair of compasses, pen, HI Formulae Sheet (enclosed). Tracing p	3 pencil, eras	ser, calculator, 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.







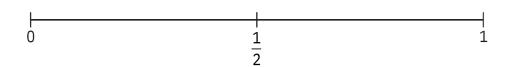
Answer ALL question	ıs.
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Write your answers in the spaces provided.

	VVIILE	your ans	SWEIS	III LIIE	spaces	provided.
	You must	write do	wn all	the st	ages in y	our working.
1١	Write 7529 correct to the nearest I	nundred.				
					(Tot	tal for Question 1 is 1 mark)
2١	Write 0.9 as a fraction.					
					(To	tal for Question 2 is 1 mark)
3	Change 6 metres into centimetre	es.				
						centimetres
					(Tot	tal for Question 3 is 1 mark)
4	Simplify 5 × 9 t					
_						
					(Tot	tal for Question 4 is 1 mark)
					(101)	tat for Question 4 is 1 mark)
5	Here is a list of numbers.					
	10	20	7	' 5	100	115
	One of these numbers is a multi	ole of 15				
	Which number?					
	······································					
					/Ta-	tal for Quartien 5 is 1 mark)
					(101)	tal for Question 5 is 1 mark)

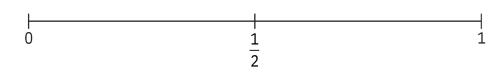


- 6 Eeshu has a fair ordinary dice. She rolls the dice once.
 - (a) On the probability scale, mark with a cross (\times) the probability that Eeshu gets the number 9



(1)

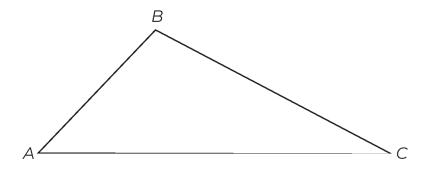
(b) On the probability scale, mark with a cross (×) the probability that Eeshu gets an odd number.



(1)

(Total for Question 6 is 2 marks)

7 Here is a triangle. The triangle is accurately drawn.



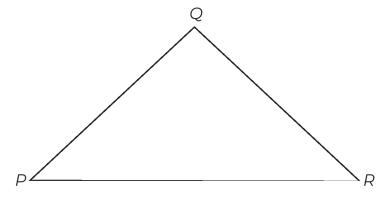
(a) Measure the length of BC.

 	cm
(1)	

(b) Measure the size of angle *B*.

(
(1)	

Here is a different triangle.



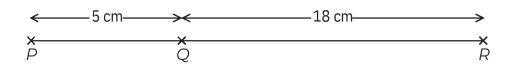
$$QP = QR$$

(c) Write down the mathematical name of this triangle.



(Total for Question 7 is 3 marks)

8 The diagram shows three motorway service stations P, Q and R on a map.



The map has a scale of 1 cm = 4 km.

Work out the real distance from P to R.

..... km

(Total for Question 8 is 3 marks)

9 Here are the first five terms of a sequence.

3

0

15

21

27

(a) Write down the next term of this sequence.

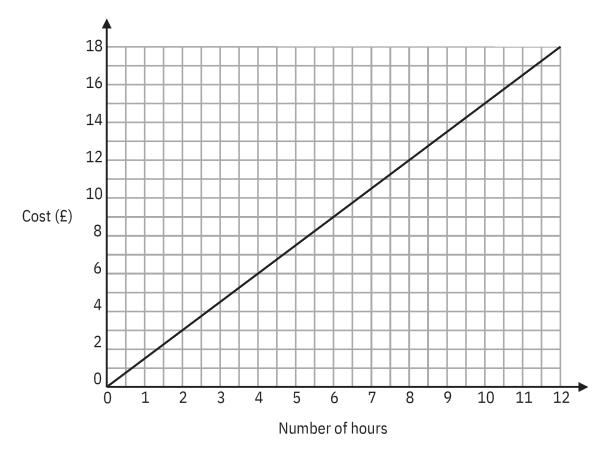
(1

(b) Write down the ratio of the third term to the fifth term. Give your ratio in its simplest form.

(2)

(Total for Question 9 is 3 marks)

10 This graph can be used to find the cost of parking a car in a car park for up to 12 hours.



(a) Use the graph to find the cost of parking a car for 5 hours.

£....(1)

George drives into the car park at 07 00 in the morning. When he drives out of the car park he has to pay £12

(b) At what time does George drive out of the car park?

(3)

(Total for Question 10 is 4 marks)

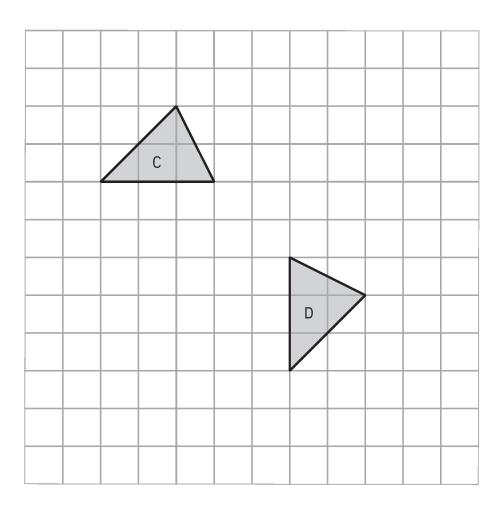
11 The table below shows the weights of the items loaded onto a cargo elevator:

Weight of item	Number of items
30 kg	3
45 kg	4
55 kg	5
65 kg	2
75 kg	3
85 kg	1

Show that the total weight of the items in the elevator is less than 1000 kg.

(Total for Question 11 is 3 marks)

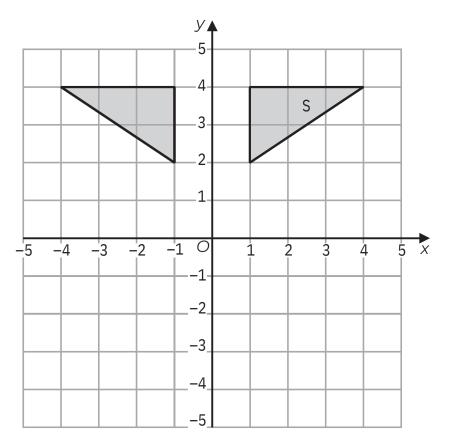
12 Shape C is reflected in a mirror line to give shape D



(a) On the grid, draw the mirror line.

(1)

(b) Ben is asked to reflect shape S in the x -axis. Here is the diagram Ben draws.



Explain the mistake Ben has made.

(1)

(Total for Question 12 is 2 marks)

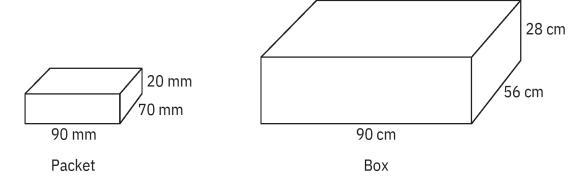
13 There are 60 teachers in a school.

This is $\frac{1}{12}$ of the total number of people in the school.

Work out the total number of people in the school.

(Total for Question 13 is 2 marks)

14 Packets of candies are put into boxes.



Each packet is a cuboid, 90 mm by 70 mm by 20 mm.

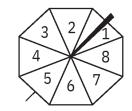
Each box is a cuboid, 90 cm by 56 cm by 28 cm.

Work out the greatest number of packets that can be put into each box.

(Total for Question 14 is 4 marks)

15 Here is a fair ordinary dice and a fair 8-sided spinner.





Emma rolls the die once and spins the spinner once.

Is Emma more likely to get

a number greater than 4 on the die

or a number less than 5 on the spinner? You must show all your working.

(Total for Question 15 is 3 marks)

16	Tina cycles at an average speed of 24 km/h for 2 hours 30 minutes.	
	Work out the distance Tina cycles.	
		. km
	(Total for Ouestion 16 is 3 marks)	

17	There are 3 classrooms: Maple, Oak, and Pine.
	The mean number of students per classroom is 28.
	There are 25 students in Maple classroom.
	There are 30 students in Oak classroom.
	Work out the number of students in the Pine classroom.

(Total for Question 17 is 4 marks)

The bottles are sold in packs.

There are 15 bottles in each pack.

Each pack costs £5.

(a) Work out the total cost of the water Eeshu buys.

£	
	(3)

Samara buys a box of 30 bottles of juice for £9.

There are 500 ml of juice in each bottle.

(b) Work out the cost of 100 ml of juice.

Give your answer correct to the nearest penny.

(3)

(Total for Question 18 is 6 marks)

19 At a school, there are 300 students.

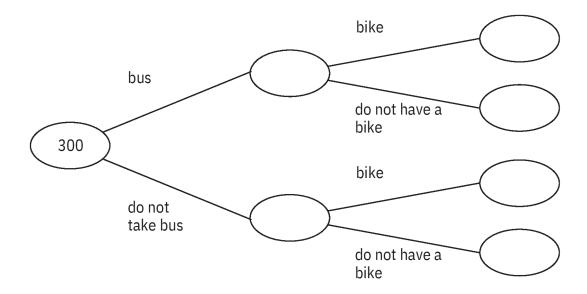
Of these students:

180 take the bus.

120 ride their bikes.

70 of the students who ride bikes do not take the bus.

(a) Use this information to complete the frequency tree.



(b) What percentage of the 100 Students who ride bikes and take the bus?

 	%
(2)	

(3)

(Total for Question 19 is 5 marks)



20 (a) Work out the value of
$$\frac{64 - \sqrt{24.69}}{5 + (4.2)^2}$$

Write down all the figures on your calculator display.

(2)

(b) Work out the value of the reciprocal of 0.841

(1)

(Total for Question 20 is 3 marks)

21	Write 90 as a product of its prime factors.
	(Total for Question 21 is 2 marks)
22	There are 72 balls in a box.
	There are only orange balls and purple balls in the box.
	The number of orange balls : number of purple balls = 3 : 1.
	James has to work out how many purple balls are in the box.
	He says, "There are 18 purple balls in the box because 1 is one-fourth of 4, and 18 is one-fourth of 72. Is James correct?
	You must give a reason for your answer.
	(Total for Question 22 is 1 mark)

23 $-4 \le n < 6$

n is an integer.

(a) Write down the greatest possible value of n.

(1)

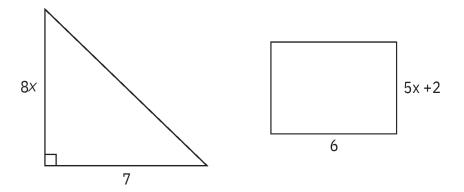
(b) On the number line below, show the inequality $-5 \le m < 1$

(c) Solve $\frac{2}{6}h - 5 < 5$

(3

(Total for Question 23 is 6 marks)

24 Here is a triangle and a rectangle.



All measurements are in centimetres.

The area of the triangle is 10 cm^2 greater than the area of the rectangle. Work out the value of x.

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(Total for Question 24 is 4 marks)

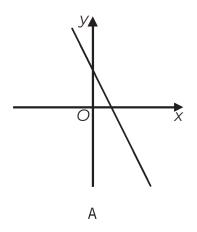
25	Last year, a school recycled 1200 kg of materials. 65% of these materials were plastic and metal. Weight of plastic recycled: weight of metal recycled = 4:3 Calculate the weight of metal the school recycled.	
		kg

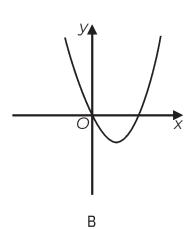
(Total for Question 25 is 3 marks)

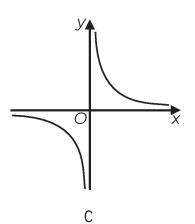
26	A number, <i>d</i> , is rounded to 1 decimal place. The result is 15.9
	Complete the error interval for d .
	(Total for Question 26 is 2 marks)
27	Charlie buys an apartment with a value of £200,000 The value of Charlie's apartment increases by 3.5% each year.
	Samantha buys an apartment with a value of £210,000 The value of Samantha 's apartment increases by 2% each year.
	At the end of 3 years, whose apartment has the greater value? You must show how you get your answer.

(Total for Question 27 is 4 marks)

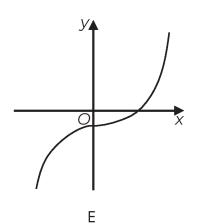
28 Here are five graphs.







D



The table shows the equations of these graphs.

Equation	Graph
$y = x^2 - 4x$	
y=x+3	
$y = x^3 - 2$	
$y = \frac{1}{x}$	
y = 5 - 2x	

Match the letter of each graph with its equation.

(Total for Question 28 is 3 marks)

TOTAL FOR PAPER IS 80 MARKS