Write your name here Surname		Other names	
Pearson Edexcel International GCSE	Centre Number	Candidate	Number
Mathematic Practice paper 6		000	
		Foundatio	n Tier
Time: 2 hours		Paper Referen 4MA1/P	
You must have: Ruler graduated in centimetres a pen, HB pencil, eraser, calculator.		ractor, compasses,	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.
- Without sufficient working, correct answers may be awarded no marks.
- Answer the questions in the spaces provided - there may be more space than you need.
- Calculators may be used.
- You must **NOT** write anything on the formulae page. Anything you write on the formulae page will gain NO credit.

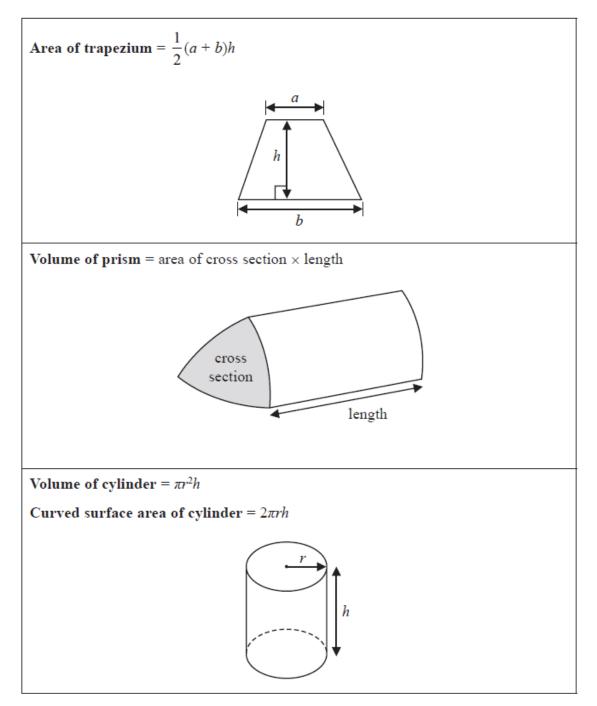
Information

- The total mark for this paper is 100.
- 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.
- Check your answers if you have time at the end.

International GCSE Mathematics Formulae sheet – Foundation Tier

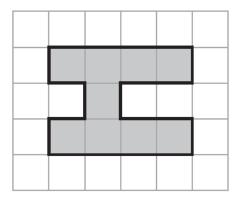


Answer ALL TWENTY FIVE questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

1 The diagram shows a shape drawn on a centimetre grid.

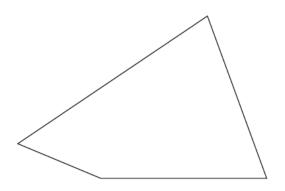


- (a) (i) Find the area of the shape.
 - (ii) Find the perimeter of the shape.

..... cm

(iii) On the grid, draw the line of symmetry of the shape.

Here is a different shape.



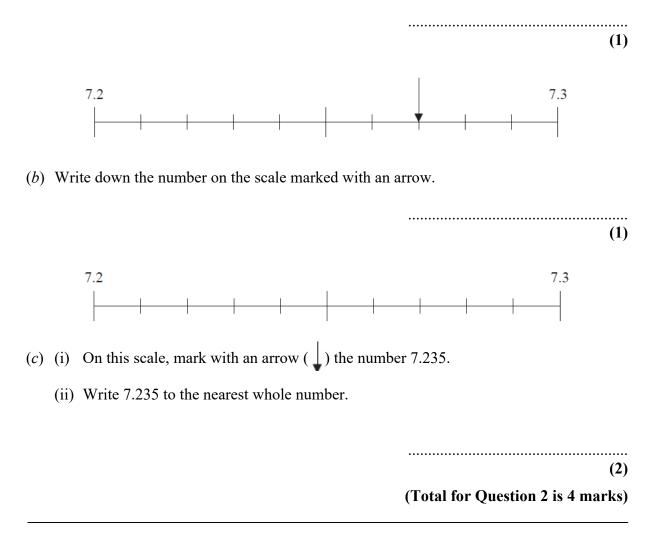
(b) On this shape, mark an obtuse angle. Label your angle O

(1)

(3)

(Total for Question 1 is 4 marks)

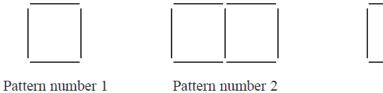
2 (a) Write down the number that is exactly halfway between 8.6 and 8.7.



The diagram shows a 5-sided polygon *ABCDE* drawn on a centimetre grid.

		y				
	Е	0		A		
		4	x			
		2				
	С	В			→	
	-4 -2	0	2	4	x	
(a) Write down	the coordinates of the po	int A.				
			(,) (1)
(b) Write down	the coordinates of the po	int C.				
			(,) (1)
(c) Write down	the mathematical name f	for a 5-sided	polygon.			
						(1)
	e length of the line AB. Inswer in centimetres to 1	decimal nla	Ce.			(-)
Give your	inswer in centimetres to 1	deemiai pia				
						. cm (1)
(e) Measure th	e size of the angle marked	l <i>x</i> .				
						0
					on 3 is 5 ma	(1)
			(1000	Zuest		

4 Here is a sequence of patterns made from sticks.





Pattern number 3

(*a*) Complete the table.

Pattern number	1	2	3	4
Number of sticks	4	7	10	

(b) Explain how you worked out your answer.

(c) How many sticks are needed to make Pattern number 12?

.....

(2)

(1)

(d) Work out the Pattern number of the pattern made from exactly 67 sticks.

(Total for Question 4 is 6 marks)

5	(<i>a</i>)	Complete the following sentences by writing a sensible metric unit on each of the dotted lines.	
		(i) The length of a pen is 14	
		(ii)The weight of a television set is 16	
		(iii) The area of a classroom floor is 60	(3)
		perta has a jug containing 2 litres of juice. pours 150 millilitres of juice from the jug into each of 3 glasses.	

(b) Work out the amount of juice still in the jug. You must give the units of your answer.

.....

(3)

(Total for Question 5 is 6 marks)

6 (a) Write down a prime number between 20 and 40.

(*b*) Work out the cube of 7.

.....(1)

(Total for Question 6 is 2 marks)

7 Here are the distances cycled, in km, on the first 6 days of the 2015 Tour de France cycle race.

Day	1	2	3	4	5	6
Distance (km)	14	166	160	224	190	192

(*a*) Work out the range of these distances.

 кm
(1)

(*b*) Work out the median distance.

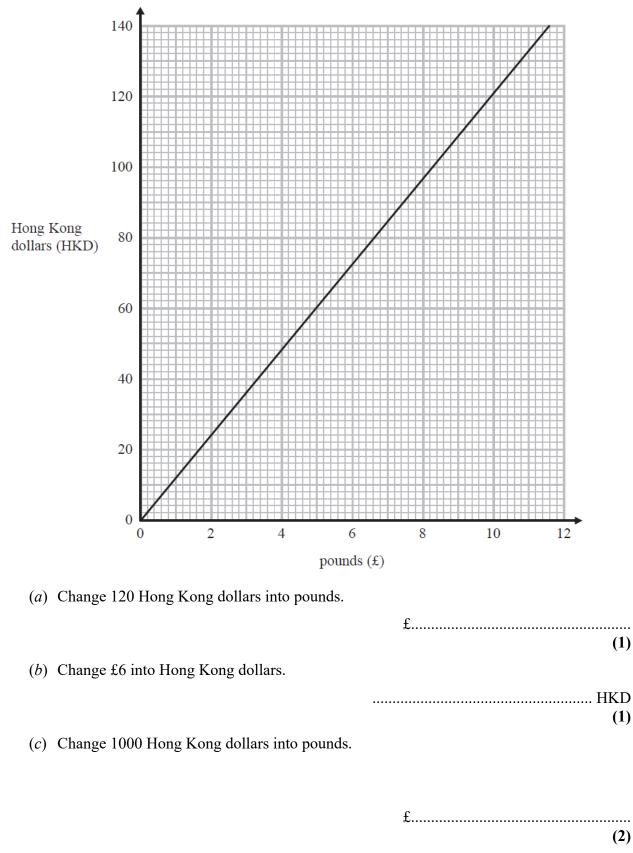
 k	cm
	(2)

Michel says,

"The median is a better average to use for these 6 distances than the mean."

(c) Explain why Michel is right	<i>(c)</i>	Explain	why	Michel	is	right.
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(1) (Total for Question 7 is 4 marks) 8 You can use this graph to change between pounds (£) and Hong Kong dollars (HKD).

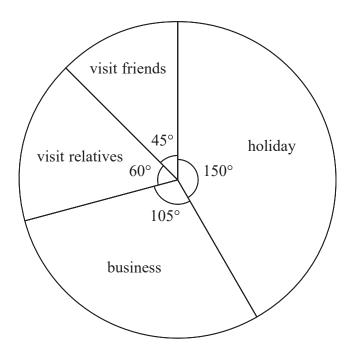


(Total for Question 8 is 4 marks)

9 Alison buys 6 plants. The plants cost £2.96 each. She pays with a £20 note.

Work out how much change Alison should get.

£..... (Total for Question 9 is 3 marks) (a) Write 23% as a fraction. 10 (1) Here are 5 numbers. $\frac{5}{9}$ $\frac{8}{15}$ $\frac{3}{5}$ 0.59 61% (b) Write these numbers in order of size. Start with the smallest number. (3) (Total for Question 10 is 4 marks) 11 240 people were asked why they had come to Dubai. The pie chart gives information about their answers.



(a) How many of these people had come to Dubai on business?

.....(2)

Tavish asked 300 people at an airport in Sri Lanka why they had come to Sri Lanka. He is going to draw a pie chart for his results.

120 of the 300 people said that they had come to Sri Lanka for a holiday. Tavish draws a sector on his pie chart for this information.

(b) Work out the size of the angle of this sector.

۰

(2)

(Total for Question 11 is 4 marks)

12 *A* is the point with coordinates (4, 11) *B* is the point with coordinates (8, 3)

Work out the coordinates of the midpoint of AB.

(.....) (Total for Question 12 is 2 marks)

13 A plane flew 8740 km from Nairobi to Hong Kong. The flight time was 13 hours 15 minutes.

Work out the average speed of the plane. Give your answer, in kilometres per hour, correct to the nearest whole number.

..... kilometres per hour

(Total for Question 13 is 3 marks)

14 There are 80 counters in a bag. The counters are either red or blue.

The ratio of the number of red counters to the number of blue counters is 3 : 1

Michael takes 15% of the red counters out of the bag.

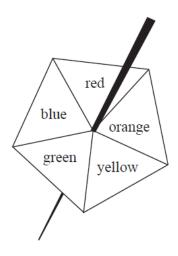
Alison takes $\frac{1}{5}$ of the blue counters out of the bag.

How many counters are now in the bag?

.....

(Total for Question 14 is 5 marks)

15 Here is a biased five-sided spinner.



When the spinner is spun, it can land on red, orange, yellow, green or blue. The probabilities that it lands on red, orange and yellow are given in the table.

Colour	red	orange	yellow	green	blue
Probability	0.4	0.2	0.1		

The probability that the spinner lands on green is the same as the probability that the spinner lands on blue.

Michael spins the spinner once.

Work out the probability that the spinner lands on green.

.....

(Total for Question 15 is 3 marks)

16 Work out the value of $\frac{17.7 \times 5.8}{\sqrt{3.4} + 5.3}$

Write down all the figures on your calculator display.

.....

(Total for Question 16 is 2 marks)

17 A lion is 224 cm long.

Simon makes a scale model of the lion. He uses a scale of 1 : 8

(*a*) Work out the length of the scale model.

In 2010, there were 411 Asiatic lions in India. In 2015, there were 523 Asiatic lions in India.

(b) Work out the percentage increase in the number of Asiatic lions in India from 2010 to 2015.Give your answer correct to 1 decimal place.

.....⁰/₀ (3)

(Total for Question 17 is 5 marks)

18 Show that $5\frac{2}{3} - 3\frac{4}{5} = 1\frac{13}{15}$

(Total for Question 18 is 3 marks)

Distance travelled (<i>d</i> km)	Frequency
$0 < d \leq 10$	5
$10 < d \leq 20$	12
$20 < d \leqslant 30$	17
$30 < d \leq 40$	20
$40 < d \leq 50$	6

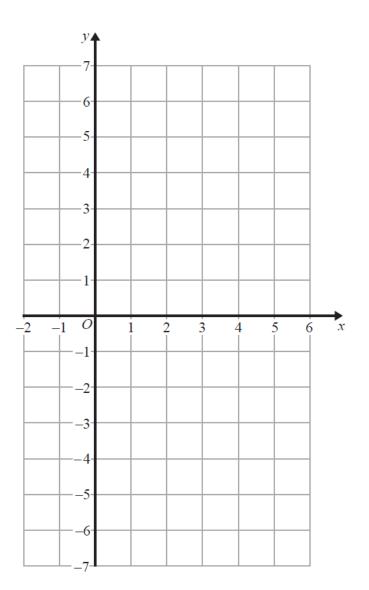
19 The frequency table shows information about the distances 60 office workers travel to work each day.

Work out an estimate for the mean distance travelled to work by these office workers. Give your answer correct to 1 decimal place.

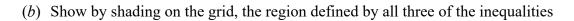
..... km

(Total for Question 19 is 4 marks)

20 (a) On the grid, draw the graph of y = -2x + 4 for values of x from -1 to 5.



(4)



$$y \le -2x + 4$$
$$y \ge -4$$
$$x \ge 1$$

Label your region R.

(3)

(Total for Question 20 is 7 marks)

21 Solve $\frac{6x-5}{2} = x+1$

Show clear algebraic working.

x =

(Total for Question 21 is 3 marks)

22 The value of a boat depreciates by 16% each year. At the end of 2012, the value of the boat is £65000.

Work out the value of the boat at the end of 2015.

£

(Total for Question 22 is 3 marks)

- Lijuan's salary is 180 000 Hong Kong Dollars (HK\$).She gets a salary increase of 3%
 - (a) Work out Lijuan's salary after this increase.

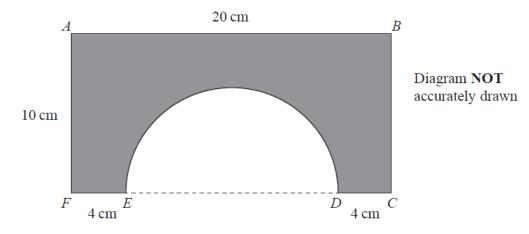
HK\$.....(3)

In a sale, all normal prices are reduced by 15% The sale price of a camera is HK\$6630.

(b) Work out the normal price of the camera.

HK\$.....

(3) (Total for Question 23 is 6 marks)



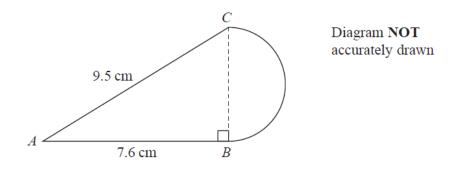
The shaded shape is made by cutting a semicircle from a rectangular piece of card, *ABCF*, as shown in the diagram.

FEDC is a straight line. The centre of the semicircle lies on *ED*. AF = BC = 10 cm, AB = 20 cm, FE = DC = 4 cm.

Work out the perimeter of the shaded shape. Give your answer correct to 3 significant figures.

..... cm

(Total for Question 24 is 3 marks)



The diagram shows a shape made from triangle ABC and a semicircle with diameter BC. Triangle ABC is right-angled at B.

AB = 7.6 cm and AC = 9.5 cm.

Calculate the area of the shape.

Give your answer correct to 3 significant figures.

.....cm²

(Total for Question 25 is 5 marks)

TOTAL FOR PAPER: 100 MARKS