For: Pearson Edexcel GCSE (9-1)

GCSE Practice Paper 1MA1



Mathematics

Paper 2F (Non-Calculator) Foundation Tier



Surname	Other names
)

You should have:

A pen, pencil, ruler and an eraser.

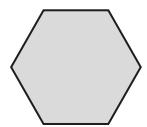
Tracing paper may be used.

A formula sheet.

Information

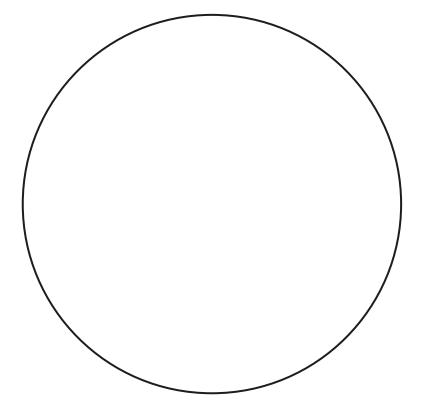
- The total mark for this paper is 80
- The marks for each question are shown in brackets.
- Answer all questions in the spaces provided there may be more space than you need.
- You must show all your working.
- Diagrams are not accurately drawn, unless otherwise indicated.
- Calculators may not be used.
- Check your answers if you have time at the end.

1 Write down the mathematical name of the shape.



(1 mark)

2 Draw a chord on the circle.

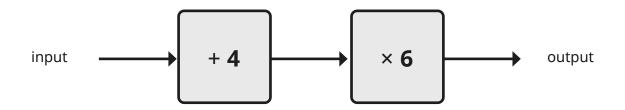


(1 mark)

3	Circle all the multiples of	12 in	the list					
		3	24	6	1	60	240	
								(2 marks)
4	a) Round 3496 to the nec	arest	hundre	ed.				
								(1 mark)
	b) Round 3.496 to the ne	arest	intege	r.				
								(1 mark)

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5 Here is a function machine.



a) Work out the output when the input is 7

(1 mark)

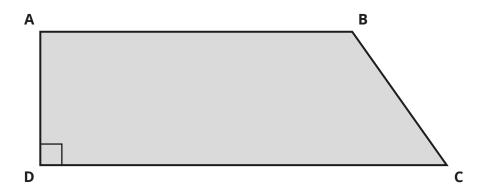
b) Work out the output when the input is $\frac{2}{3}$

(1 mark)

c) Work out the input when the output is -9

(1 mark)

6 ABCD is a trapezium.



a) Draw arrows (>>) to show the parallel sides on ABCD.

(1 mark)

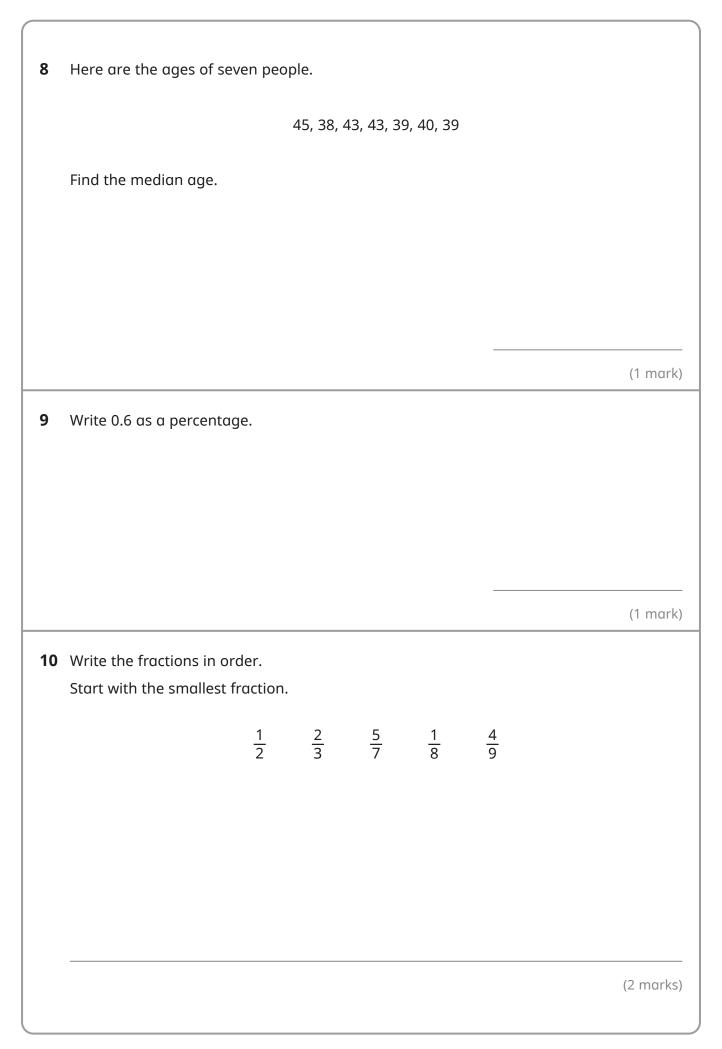
b) Which side is perpendicular to AB?

(1 mark)

7 Jack gets paid £6.20 per hour.

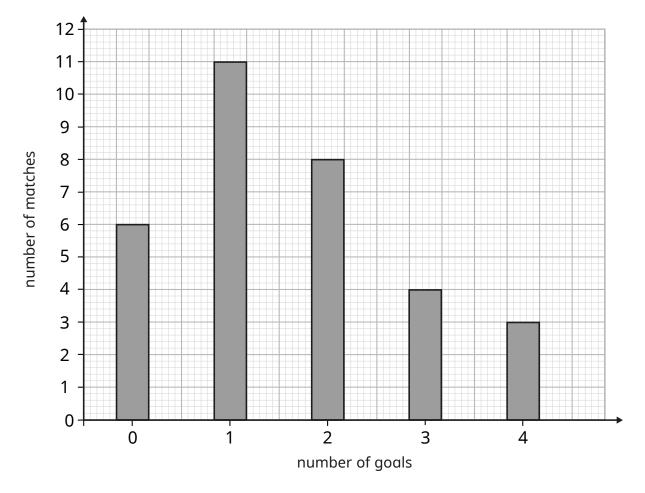
One day, he works from 8 am to 2 pm.

How much does Jack get paid for this day?



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11 The bar chart shows the number of goals scored per game by a hockey team in a season.



a) How many times did the team score at least 2 goals in a game?

(1 mark)

b) How many games did the team play in the season?

(1 mark)

c) What is the modal number of goals scored by the team?

(1 mark)

12 Students in years 7, 8 and 9 study French, German or Spanish.

	French	Spanish	German	Total
Year 7	59		58	180
Year 8	56	19		
Year 9	35	38		105
Total				400

a)	Complete	the	two-way	table
----	----------	-----	---------	-------

(2 marks)

b)	Work out the tota	l number o	of students ir	n years 7	, 8 and 9	who study 9	Spanish.

		(1	mark)

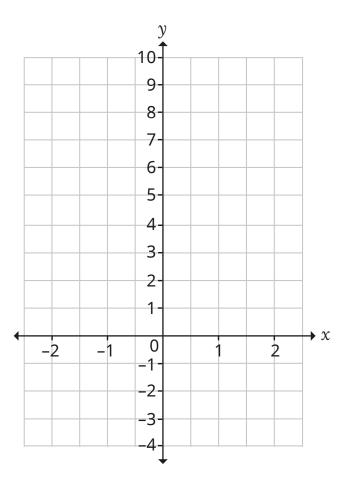
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13 a) Complete the table of values for y = 3x + 2

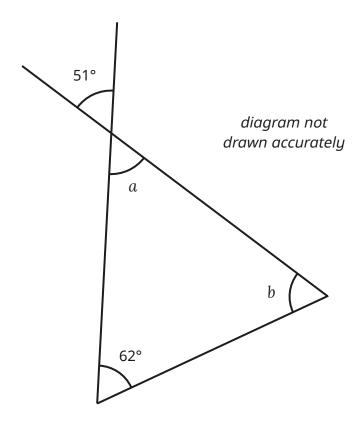
x	-2	-1	0	1	2
У					

(2 marks)

b) On the grid, draw the graph of y = 3x + 2 for values of x from -2 to 2



14



a) Write down the size of angle a.

(1 mark)

b) Work out the size of angle b.

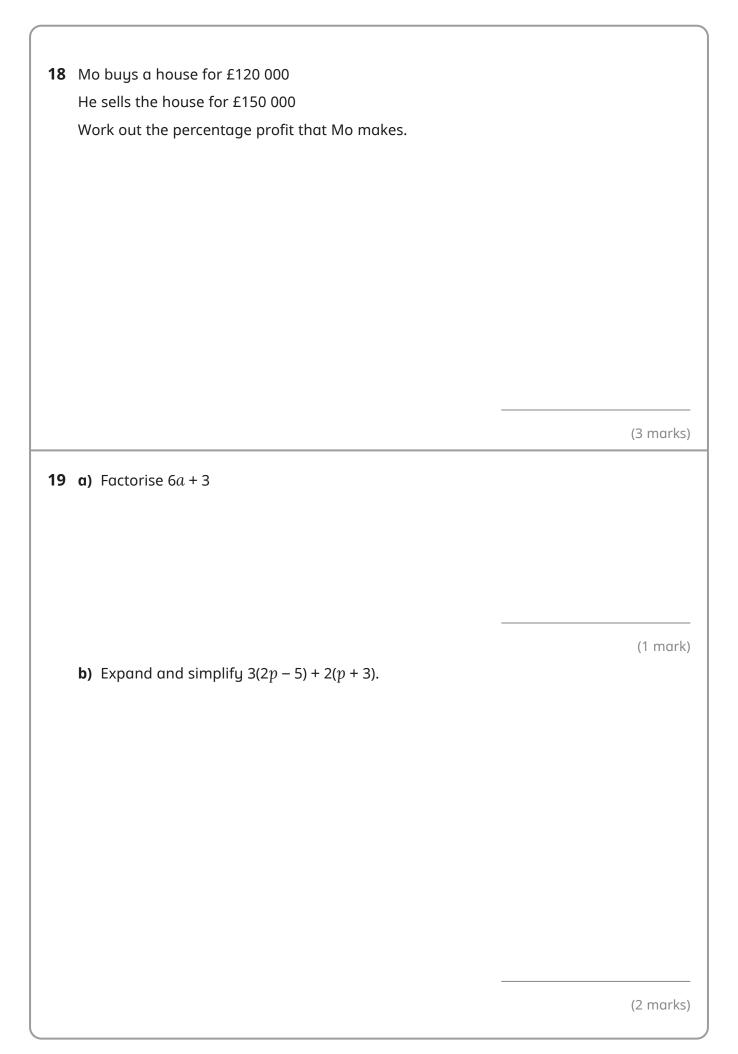
15 A map is drawn using the scale of 1 cm to 8 miles.	
The distance between two towns on the map is 7.5 cm.	
Work out the actual distance between the two towns.	
_	
	(2 marks)
	. ,
16 Here is a recipe for cupcakes.	
Cupcakes (makes 8)	
100 g butter	
100 g sugar	
2 eggs	
1 tsp vanilla extract	
120 g flour	
4 tbsp milk	
T toop mink	
a) Write the ratio of butter to flour in its simplest form.	
·	
_	
	(2 marks)
Dora wants to make 12 cupcakes.	(2 110110)
b) Work out how much butter she needs.	
b) Work out now much butter she needs.	
_	
	(2 marks)

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17 A dog is classed as a large breed dog if its mass is over 25 kg. The mass of Ron's dog is 3 stone 10 lbs. Using the conversion facts given, decide whether or not Ron's dog is classed as a large breed dog. You must show your working. 1 stone = 14 lbs 1 kg ≈ 2.2 lbs

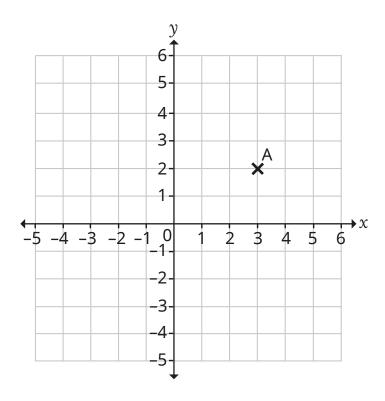
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(4 marks)



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20



a) Write down the coordinates of point A.

(1 mark)

Point B has coordinates (-1, 2).

b) Plot point B on the grid.

(1 mark)

ABC is an isosceles triangle.

The coordinates of point C are (p, 5).

c) Find the value of p.

(1 mark)

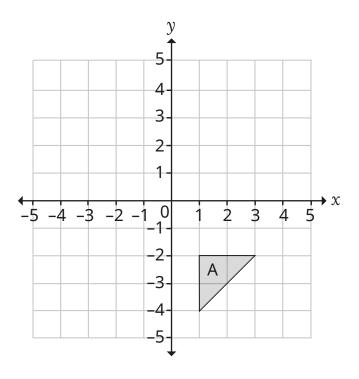
21	a) Simplify $y^8 \div y^2$		
	a, 5pg <i>y</i>		
	L) C' - L'C (0.5)2		(1 mark)
	b) Simplify $(2z^5)^3$		
			(2 marks)
22			
22	Solve the simultaneous equations.		
		x + 2y = 13	
		x + 5y = 28	

x =

y = ____

(3 marks)

23 a)

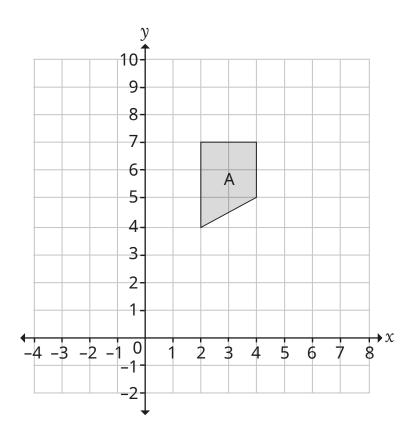


Enlarge triangle A by scale factor 2 using (3, -4) as the centre of enlargement.

(3 marks)

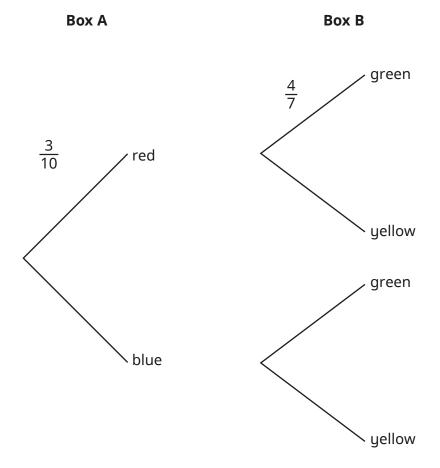
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b)



Translate trapezium A by the vector $\begin{pmatrix} 4 \\ -3 \end{pmatrix}$.

- **24** Two boxes each contain some counters.
 - 3 out of the 10 counters in box A are red. The rest are blue.
 - 4 out of the 7 counters in box B are green. The rest are yellow.
 - a) Complete the probability tree diagram.



(2 marks)

Sam chooses one counter from each box at random.

b) Find the probability that she chooses a blue and a yellow counter.

25 The table shows the mass of 10 boxes.

Mass (m)	Frequency
0 ≤ <i>m</i> < 2	1
2 ≤ m < 4	2
4 ≤ m < 6	4
6 ≤ m < 8	1
8 ≤ <i>m</i> < 10	2

Work out an estimate for the mean mass of the boxes.

(3 marks)

26 In the USA, the cost of a phone is \$1200

In the UK, the cost of the same phone is ± 920

Using the exchange rate £1 = \$1.36, work out the difference in cost of the phone in the USA and the UK.

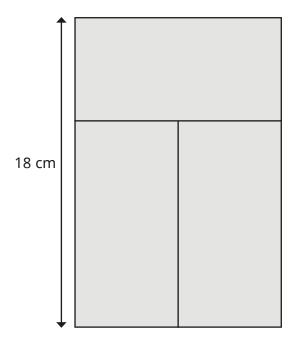
27 Mr Singh buys a computer for £2500

Each year the value of the computer depreciates by 7.2%.

Calculate how much the computer is worth after 2 years.

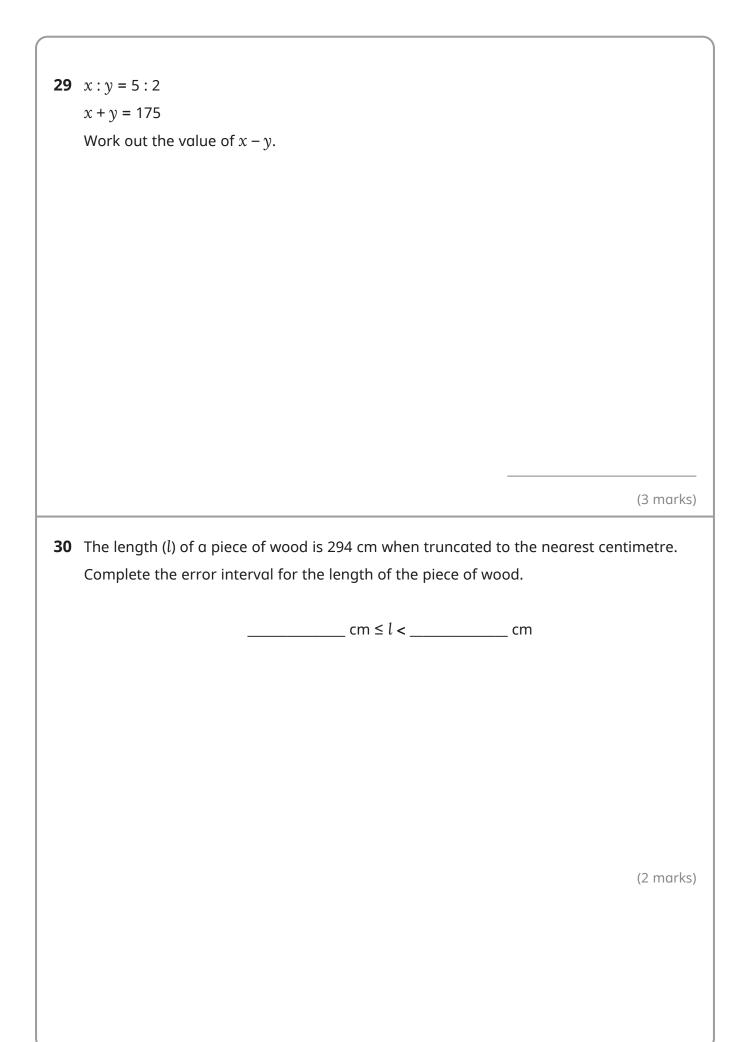
(3 marks)

28 A shape is made from three congruent rectangles.



Work out the area of the shape.

(3 marks)



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