Centre No.					Pape	r Refer	ence			Correction	Initial(s)
Candidate No.			1	3	8	0	/	2	F	Signature Mr M Set	nar_

Paper Reference(s

1380/2F

Edexcel GCSE

Mathematics (Linear) - 1380

Paper 2 (Calculator)

Foundation Tier

Friday 12 November 2010 - Morning

Time: 1 hour 30 minutes

Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used. Items included with question papers

Nil

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper.

Answer ALL the questions. Write your answers in the spaces provided in this question paper.

You must NOT write on the formulae page.

Anything you write on the formulae page will gain NO credit.

If you need more space to complete your answer to any question, use additional answer sheets.

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2).

There are 27 questions in this question paper. The total mark for this paper is 100,

There are 24 pages in this question paper. Any blank pages are 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.

Advice to Candidates

Show all stages in any calculations.

Work steadily through the paper. Do not spend too long on one question.

If you cannot answer a question, leave it and attempt the next one.

Return at the end to those you have left out.

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Turn over

Team Leader's use only



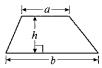
GCSE Mathematics (Linear) 1380

Formulae: Foundation Tier

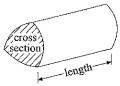
You must not write on this formulae page.

Anything you write on this formulae page will gain NO credit.

Area of trapezium = $\frac{1}{2}(a+b)h$



Volume of prism = area of cross section \times length

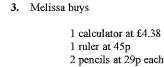


Leave blank Answer ALL TWENTY SEVEN questions. Write your answers in the spaces provided. You must write down all stages in your working. Write down the number marked by the arrow. (b) Write down the number marked by the arrow. (c) 102 Write down the number marked by the arrow. Find the number -5.2 on the number line. Mark it with an arrow (↑). (1) Q1 (Total 4 marks)

N 3 7 8 3 2 A 0 3 2 4

Turn over

Red		
Blue	$\Diamond \Diamond \Diamond \Diamond \Delta$	
Purple	\oplus \oplus	
Yellow	♦ ►	
	Key: \uparrow r	epresents 4 students
	the number of students who said red.	8
	the number of students who said blue, $4+4+2$	18
	their favourite colour was purple. heir favourite colour was yellow.	
c) Use this info	ormation to complete the pictogram.	(2)
		(Total 4 marks)



She pays with a £10 note.

Work out how much change Melissa should get.

Change =
$$10 - 5.41$$

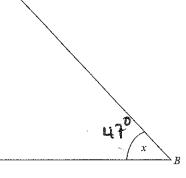
= £4.59

(Total 3 marks)

Q3

Leave blank

4.



(a) Measure the length of the line AB. Give the units with your answer.

8.5 cm

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

(1)

(Total 3 marks)

Q4

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6

6 11 (1) 2/5 (1) (Total 2 marks)	Q6
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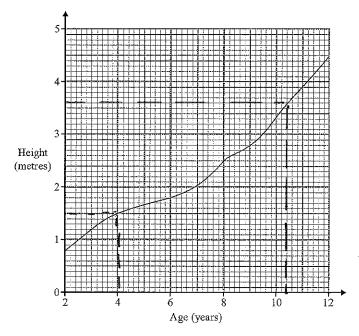
	Q 7
	5

8. B(a) (i) Write down the coordinates of the point A. (ii) Write down the coordinates of the point B. (b) On the grid, plot the point (5, -1). Label this point C. (1) Q8 (Total 3 marks)

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o) Complete the table	for Pattern	5 and	Patter	n 6									
				T	1		1						
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10. The graph shows information about the age and height of a tree.





(a) Use the graph to find the height of the tree when it was exactly 4 years old.

 1.5	m
	(1)

(b) Use the graph to find the age of the tree when it had a height of 3.6 m.

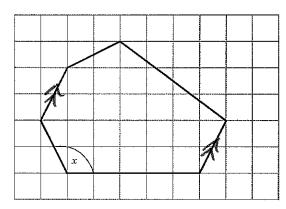
Q10

(Total 2 marks)

11. Here are the weights, in kg, of 7 people. 57 (87) 49 49 72 45 75 (a) Work out the range of these weights. Highest - Lowest - $8.7 - 4.5 = 4.2$ (b) Work out the mean weight. Mean = $\frac{5.7 + 8.7 + 4.9 + 4.9 + 7.2 + 4.5 + 7.5}{7}$ Mean = $\frac{6.2 \text{ kg}}{2}$ (2) (b) On the probability scale below, mark with a cross (×) the probability that in an all girls school the youngest student will be a girl. (b) On the probability scale below, mark with a cross (×) the probability that the next baby born in London will be a boy. (c) On the probability scale below, mark with a cross (×) the probability that when a fair dice is rolled it will land on a number less than 3. 1 or 2	11. Here are the weights, in kg, of 7 people. 57 87 49 49 72 45 75 (a) Work out the range of these weights. Highest - Lowest - 87 - 45 = 42 (b) Work out the mean weight. Mean = 57 + 87 + 49 + 49 + 72 + 45 + 75 7 Mean = 62 kg (2) (3) (b) On the probability scale below, mark with a cross (×) the probability that in an all girls school the youngest student will be a girl. (b) On the probability scale below, mark with a cross (×) the probability that the next baby born in London will be a boy. (c) On the probability scale below, mark with a cross (×) the probability that when a fair dice is rolled it will land on a number less than 3. 1 or 2	11. Here are the weights, in kg, of 7 people. 57 (87) 49 49 72 45 75 (a) Work out the range of these weights. 8 7 - 45 = 42 (b) Work out the mean weight. Mean = $\frac{57 + 87 + 49 + 49 + 72 + 45 + 75}{7}$ Mean = $\frac{62 \cdot \text{kg}}{2}$ (2) (b) On the probability scale below, mark with a cross (×) the probability that in an all girls school the youngest student will be a girl. (b) On the probability scale below, mark with a cross (×) the probability that the next baby born in London will be a boy. (c) On the probability scale below, mark with a cross (×) the probability that when a fair dice is rolled it will land on a number less than 3. 1 or 2	•	blank
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\frac{1}{3} \frac{1}{2} \qquad \qquad 1$	$\frac{1}{3} \frac{1}{2} \qquad $	(c) On the probability scale below, mark with a cross (x) the probability that when	
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$\frac{1}{2}$	$\frac{1}{3} \qquad \overline{2} \qquad \qquad (1) \qquad \boxed{012}$	$\frac{1}{3}$ $\frac{2}{2}$	<u> </u>	
. 2	3 (1) Q12	3 (1) Q12	$\frac{1}{2}$	
	(Total 3 marks)	(Total 3 marks)	2.	Q12
(Tatal 3 marks)	(LULAI 5 HAIRS)	(XOLAI S IIIAI KS)	(Tatal 3 marks)	
(IUIAI J IIIAI KS)			(Total 5 marks)	

13. Here is a six-sided polygon drawn on a grid.

Leave blank



(a) Write down the mathematical name of a six-sided polygon.

Hexagon

(b) On the polygon, mark with arrows (>>) a pair of parallel lines.

(1)

(c) What type of angle is the angle marked x?

Obtuse

Q13

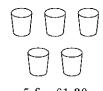
(Total 3 marks)

14. Two shops, Food Mart and Jim's Store, both sell Kreemy Yoghurts.

Leave

Food Mart

Kreemy Yoghurts



5 for £1.80

Jim's Store

Kreemy Yoghurts



3 for £1.05

At which shop are Kreemy Yoghurts the better value for money? You must show all your working.

Food Mart =

1 Yoghurt: 1.80 = 5 = £0-36 = 36p

Jim's Store:

Noghurt = 1.05 = 3 = fo.35 = 35p.
Belter Value = Jim's Store (35p)

Jim's store

(Total 3 marks)

	15 Tr	Leave blank
	15. Here are all the factors of 16 1 (2) 4 8 16	
	(a) Write down the factor of 16 that is a prime number.	
	(a) while down the factor of 10 that is a printer hamber.	
Prompte	(1)	
	(b) Write down all the factors of 14	
	1, 2, 7, 14	
	1, 2, 7, 14	Q15
	(Total 3 marks)	
and the second s	16. (a) Write these numbers in order of size. Start with the smallest number.	
TOTAL PROPERTY AND	0.306 0.63 0.3 0.068 0.068, 0.3, 0.306, 0.63	
TA ALLEY TO THE TAXABLE TO THE TAXAB	(b) Write these fractions in order of size. Start with the smallest fraction.	
	$\frac{\frac{3}{4}}{\frac{7}{12}} = \frac{\frac{5}{6}}{\frac{3}{8}} = \frac{\frac{3}{8}}{\frac{14}{24}} < \frac{\frac{14}{24}}{\frac{24}{24}} < \frac{\frac{18}{24}}{\frac{24}{24}} < \frac{\frac{20}{24}}{\frac{24}{24}} < \frac{\frac{18}{24}}{\frac{24}{24}} < \frac{\frac{18}{24}}{\frac{24}{24}} < \frac{\frac{18}{24}}{\frac{24}{24}} < \frac{\frac{18}{24}}{\frac{24}{24}} < \frac{\frac{1}{24}}{\frac{24}{24}} < \frac{\frac{1}{24}}{\frac{24}{24}} < \frac{\frac{1}{24}}{\frac{2}{24}} < \frac{\frac{1}{24}}{\frac{2}} <$	
Equivalent fraction	15 24 24 24 14 less than.	
The state of the s	3 7 3 5	216

Leave blank

17. A family of 2 adults and 3 children went on holiday to Miami. They travelled from London by plane.

Adult plane tickets cost £459 each. Child plane tickets cost £289 each.

(a) Work out the total cost of the plane tickets for the 2 adults and 3 children.

£ 1785

The family visited a theme park.
They paid a total of 322 dollars to go in.

The exchange rate was £1 = 1.84 dollars.

(b) Change 322 dollars to pounds (£).

$$f_1 = 1.84 \pm 1.322$$

 $322 \pm 1.84 = 175$

E 175

The distance from London to Miami is 7120 km. The plane journey took 8 hours.

(c) Calculate the average speed of the plane.

$$S = \frac{D}{T} = \frac{7120}{8}$$
= 890

(D=distance; T=Time)

890 _{km/h}

(Total 6 marks)

Q17

blank 18. This rule is used to work out the number of points a team gets. Number of Number of Number of points games won × 3 games drawn Rovers have won 8 games and drawn 2 games. (a) How many points have Rovers got? Number of points = 8 x 3 + 2 = 24+2 26 points Grangers have got 42 points. They have drawn 6 games. (b) How many games have Grangers won? 42 points = Number of games × 3 + Number of games

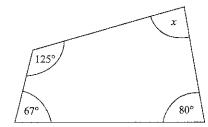
Won drawn (=6)

Number of games = 42 - 6

Won 3 = 12

(Total 4 marks)

19.



Leave

Diagram NOT accurately drawn

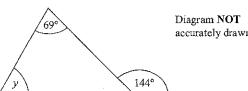
$$\chi + 125 + 80 + 67 = 360$$

(a) (i) Work out the size of the angle marked x.

$$\chi = 360 - (125 + 80 + 67)$$
= 88

(ii) Give a reason for your answer.

Angles in a quadrilateral add up to 360°



accurately drawn

(b) (i) Work out the size of the angle marked y.

$$y+69=144$$

 $y=144-69$
= 75

y =75 °

(ii) Give a reason for your answer.

Exterior angle of a triangle is equal to the sum of the interior opposite angles -

Q19

(Total 6 marks)



17

Turn over

20. 100 people played sport on Sunday. Each person played only one sport.

The two-way table shows some information about which sport they played.

	Football	Tennis	Rugby	Netball	Total
Men	24	12	10	8	54
Women	20	9	6	CORRECT	46
Total	44	2 i	16	19	100

(a) Complete the two-way table.

(3)

(b) How many women played football?

20

(1)

(c) How many people did not play rugby?

84

Q20

(Total 5 marks)

21. Use your calculator to work out

$$\frac{13.7 + 5.86}{2.54 \times 3.17}$$

Write down all the figures on your calculator display. You must give your answer as a decimal.

$$(13.7+5.86) \div (2.54 \times 3.17) =$$

2.429270474

Q21

(Total 2 marks)

22.

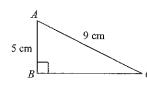


Diagram NOT accurately drawn

Pythagoras theorem: $AC^2 = AB^2 + BC^2$ $BC^2 = AC^2 - AB^2$

ABC is a right-angled triangle.

AB = 5 cm, AC = 9 cm.

Work out the length of BC. Give your answer to 2 decimal places.

$$BC = \sqrt{9^2 - 5^2}$$

BC=7.483

Q22

Leave

(Total 3 marks)

23. Noah got 8 out of 20 in a test.

Write 8 out of 20 as a percentage.

$$\frac{8}{20} \times 100 = 8 \times 5$$

Q23

(Total 2 marks)

24. There are 20 beads in box A.

20 beads

box A

In box B there are twice as many beads as in box A.

twice as many as A

box B

In box C there are $\frac{3}{4}$ of the number of beads as in box A.

$$\frac{3}{4} \times 20 = 3 \times 5 = 15$$

 $\frac{3}{4}$ of A

box C

In box $\bf D$ there are 10% more beads than in box $\bf A$.

$$10\% \text{ of } 20 = 2$$

 $2 + 20 = 22$

10% more than A

box D

Work out the total number of beads in the four boxes.

Q24

(Total 4 marks)

(a) Reflect the shaded shape in the line y = x.

N 3 7 8 3 2 A 0 2 1 2 4

(b) On the grid, enlarge the shaded shape by a scale factor of 3, centre \mathcal{O} .

21

Q25

Turn over

(3)

(Total 5 marks)

	Leave blank
26. 200 students in Year 11 took a mathematics test. Kamini wants to find out whether students in Year 11 like mathematics.	
For her sample she asks the 20 students who got the highest marks in the test.	
This is not a good sample to use.	
(a) Write down one reason why.	
The sample is not representative of the 200 students (too small)	
200 students (too small)	
(1)	
She uses this question on her questionnaire.	many in relation has
What do you think of mathematics?	areas and tracks used to
	7
Excellent Very good Good	men'in ratherine
(b) Write down one thing that is wrong with this question.	
a å st	
Not speafic enough -	
(1)	
Kamini also wants to find out how many hours students spend on their mathematics homework.	
(c) Design a suitable question that Kamini could use on her questionnaire. You must include some response boxes.	
How many hours do you spend on your h/w per week?	
was blic ser week?	
your win per re-	
The same has	
ohrs 1-2 hrs 3 or more hrs	
	Q26
(2) (Total 4 marks)	

27. (a) Solve 2x + 3 = 10

$$2x+3-3=10-3$$

$$2x=7$$

$$x=\frac{7}{2}$$

(b) Simplify

(i)
$$c^5 \times c^6$$
 C $5+6 = C$

(ii)
$$e^{12} \div e^4$$
 $e^{12-4} = e^8$

(c) Simplify fully 7x - 2(x - 3y) - 4y

$$7x - 2x + 2x 3y - 4y
7x - 2x + 6y - 4y
5x + 2y$$

52+24 (3)

Q27

(Total 7 marks)

TOTAL FOR PAPER: 100 MARKS

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