Centre No.				Paper Reference				Surname	Initial(s)		
Candidate No.			1	3	8	0	/	1	F	Signature	

Paper Reference(s)

1380/1F

Edexcel GCSE

Mathematics (Linear) – 1380

Paper 1 (Non-Calculator)

Foundation Tier

Monday 7 June 2010 – Afternoon

Time: 1 hour 30 minutes



Examiner's use only Team Leader's use only

Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser. 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 28 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 must not be used.

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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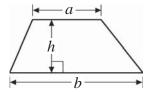


GCSE Mathematics (Linear) 1380

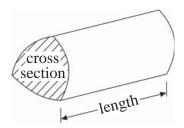
Formulae: Foundation Tier

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



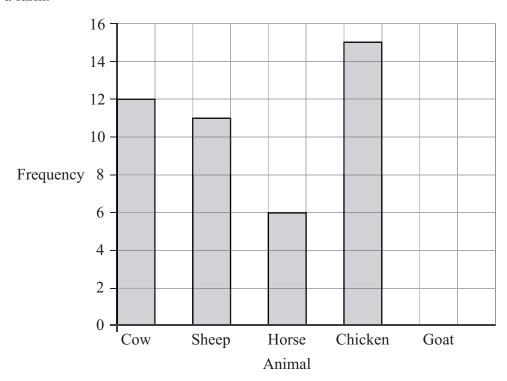
Answer ALL TWENTY EIGHT questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

You must NOT use a calculator.

1. The bar chart gives information about the numbers of cows, sheep, horses and chickens on a farm.



(a)) Writ	e down	the	numbe	r of	horses	on	the	farm
-----	--------	--------	-----	-------	------	--------	----	-----	------

(1)

(b) Write down the number of sheep on the farm.

(1)

There are also 7 goats on the farm.

(c) Use this information to complete the bar chart.

(1) Q1

2.	(a)	Write the number fifteen thousand , six hundred and seven	ty two in figures.	Leave
			(1)	
	(b)	Write the number 3020 in words.	.,	
			(1)	
	(c)	Write the number 8196 to the nearest hundred.		
			(1)	
	(d)	Write down the value of the 6 in the number 236 894		
			(1)	Q2
			(Total 4 marks)	
3.	(a)	Measure the length of PQ . Give your answer in centimetres. $P - Q$	cm (1)	
	(b)	Measure the size of angle x .	······································	
	(c)	What type of angle is angle x ?	(-)	
			(1)	Q3
			(Total 3 marks)	

4.	Write these numbers in order of size. Start with the smallest number. (a) 7, -2, -6, 1, -3	Leave blank
	(1)	Q4
	(Total 2 marks)	
5.	Kunal goes to a café. He can choose one drink and one snack.	
	Drinks Snacks	
	Milk Juice Sandwich Water Biscuit	
	One possible combination is (Milk, Apple). Write down all the possible combinations Kunal can choose. The first one has been done for you.	
	(M, A)	
		Q5
	(Total 2 marks)	

			7		$/ \overline{\ }$		\
Pattern number 1	Pattern nu	imber 2	2	_	Pattern	number 3	_`
(a) In the space below	, draw Pattern n	number	4				
(h) Complete the table							(1)
(b) Complete the table	•						
				3	4	5	
Pattern number		1	2		 		
Pattern number Number of sticks		3	5	7	4		(1)
	nre in Pattern nu	3	5		4		(1)
Number of sticks	nre in Pattern nu	3	5		4		(1)
Number of sticks	nre in Pattern nu	3	5		4		(1)
Number of sticks	nre in Pattern nu	3	5				
Number of sticks (c) How many sticks a		3 imber	5	7			(1)
Number of sticks (c) How many sticks a Ben wants to find the n	number of sticks	3 in Pat	5	7			
Number of sticks (c) How many sticks a	number of sticks	3 in Pat	5	7			



	TT ' 1' 4	CO 1							Leave blank
7.	Here is a list of			16	10	20	21	22	
	4	7		16	10	20	21	32	
	From the number		ie list wri	te down a	a number	that 1s			
	(i) an odd nur	mber							
	(ii) a multiple	of 5							
	(iii) a square n	umber							
	(iv) a factor of	42							
	(,	_							Q7
								(Total 4 mayles)	
								(Total 4 marks)	
8.	The diagram sh	hows a s	haded rec	tangle dr	awn on a	centimet	re grid.		
	(a) Find the ar State the u	rea of the inits of y	e shaded i our answ	rectangle er.					
							•••••	(2)	
	(b) Find the po	erimeter	of the sha	aded rect	angle.				
							••••	cm	Q8
								(1) (Total 3 marks)	
								(Total 3 marks)	

9. The table shows some information about boxes of cereal on sale in a supermarket.

Cereal	Weight of 1 box	Cost of 1 box
Coco Pops	600 g	£2.79
Cornflakes	375 g	£1.26
Frosties	500 g	£1.55
Rice Krispies	600 g	£2.43
Shreddies	500 g	£1.85

(a) How much does a box of Frosties coa

£.....(1)

A box of cereal has a weight of 375 g.

(b) Write down the name of this cereal.

(1)

A box of cereal has a weight of 600 g and costs less than £2.50

(c) Write down the name of this cereal.

(1)

Ed buys

one box of Coco Popsand two boxes of Shreddies.

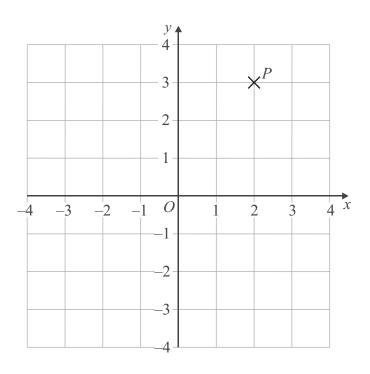
(d) How much money in total does Ed spend?

£.....(2)

Q9



Leave blank



(a) Write down the coordinates of the point P.

(.....) (1)

- (b) (i) On the grid, plot the point (1, 2). Label the point Q.
 - (ii) On the grid, plot the point (-3, -2). Label the point R.

(2)

Q10

11.	Each ca		ape drawn								Leave blank
	Each sh	ape is a cir	cle or a s	square 🔲	or a tria	ngle 🛆	•				
	James ta	akes a card	at random.	•							
	(i) Wh	ich shape i	s most like	elv to be o	on the ca	ard?					
	(1) ,,11	ireir sirape i		ij to oe v	<i>311 the ce</i>						
	(ii) Wh	at is the pr	obability th	at James	takes a	card tha	ut has a so	luare	on it?		
									•••••		Q11
									(Total 3	marks)	Q11
12.	Alan rec	corded the	numbers of	text mes	ssages se	ent by 7	people or	ne day.	(Total 3	marks)	Q11
12.	Alan rec								(Total 3	marks)	Q11
12.		6	9	E text mes	ssages se	ent by 7	people of	ne day.	(Total 3	marks)	Q11
12.			9						(Total 3	marks)	Q11
12.		6	9						(Total 3		Q11
12.		6	9						(Total 3	(1)	Q11
12.	(a) Find	6	9 e.						(Total 3		Q11
12.	(a) Find	6 d the mode	9 e.						(Total 3		Q11
12.	(a) Find	6 d the mode	9 e.						(Total 3		Q11
12.	(a) Find	6 d the mode	9 e. range.						(Total 3	(1)	Q11
12.	(a) Find	6 d the mode rk out the 1	9 e. range.						(Total 3	(1)	Q11
12.	(a) Find	6 d the mode rk out the 1	9 e. range.						(Total 3	(1)	Q11
12.	(a) Find	6 d the mode rk out the 1	9 e. range.						(Total 3	(1)	Q11 Q12

13. The table shows the percentage of each type of book in a library.

Type of book	Percentage
Children's	24%
General	42%
Mystery	13%
Romance	15%
Science fiction	2%
Thriller	4%

(a)	What type	of book ha	is the smalle	est percentage?
-----	-----------	------------	---------------	-----------------

(1)

(b) Write 13% as a decimal.

(1)

(c) Write 24% as a fraction. Give your answer in its simplest form.

.....(2)

There are 3000 books in the library.

(d) Work out 15% of 3000

(2)

		Lea	ave ank
14.	Tanaka says 'When you multiply an odd number and an even number together, you will	010	шк
	always get an odd number'.		
	Show that Tanaka is wrong.		
	Show that Tahaka 15 wrong.		
		Q1	4
	(Total 2 marks)		

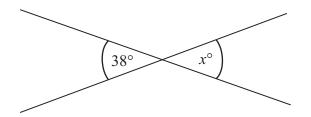


Diagram **NOT** accurately drawn

(a) (i) Write down the value of x.

.....

(ii) Give a reason for your answer.

(2)

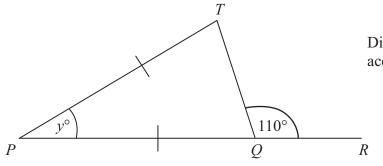


Diagram **NOT** accurately drawn

PQR is a straight line.

PT = PQ.

(b) (i) Work out the value of y.

.....

(ii) Give reasons for your answer.

.....

.....

(4) Q15

16. (a) Simplify p + p + p + p

.....(1)

(b) Simplify $m \times m \times m$

(1)

B = 2k + 12

k = 5

(c) Work out the value of B.

 $B = \dots (2)$

T = 4w - 2

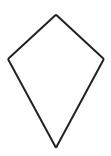
T = 22

(d) Work out the value of w.

 $w = \dots (2)$

Q16

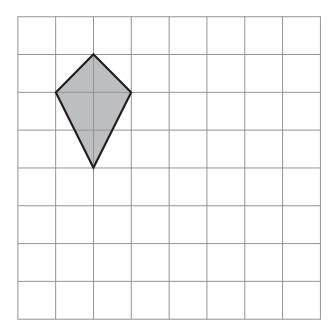
17. Here is a quadrilateral.



(a) Write down the mathematical name of this quadrilateral.

(1)

(b) On the grid below, show how the shaded shape can tessellate. You should draw at least six shapes.



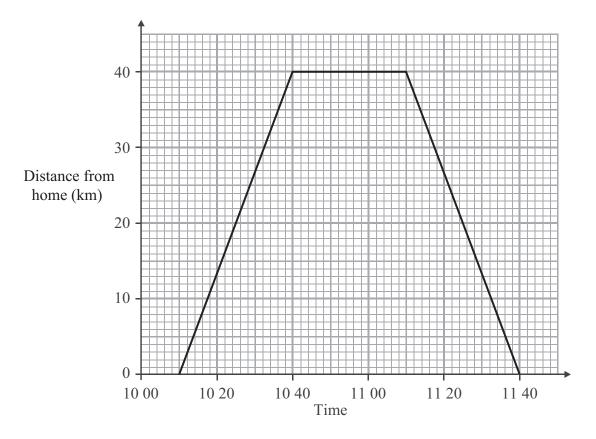
(2)

Q17

		Leave blank
18.	Lesley goes to the cinema.	
	The film starts at 18 10 The film lasts for 135 minutes.	
	(a) At what time does the film finish?	
	(3)	
	There are 300 people in the cinema.	
	$\frac{1}{6}$ of the 300 people are boys.	
	$\frac{3}{10}$ of the 300 people are girls.	
	The rest of the people are adults.	
	(b) Work out how many people are adults.	
	(4)	Q18
	(Total 7 marks)	
	(100017 100100)	

19. Nigel travelled from his home to his friend's house 40 km away. Nigel stayed for some time at his friend's house before returning home.

Here is a distance-time graph for Nigel's journey.



(a) At what time did Nigel leave home?

.....(1)

(b) How far was Nigel from home at 10 20?

..... km (1)

(c) How many minutes did Nigel spend at his friend's house?

..... minutes

(1)

(Total 3 marks)



Q19

Leave blank

20. (a) Work out $\frac{2}{3} \times \frac{1}{5}$

(1)

(b) Work out $\frac{1}{7} + \frac{2}{21}$

(2) Q20

(Total 3 marks)

21. Here are the weights, in grams, of 16 eggs.

47 45

50

53

43

61

53

62

58

56

57

47

55

62

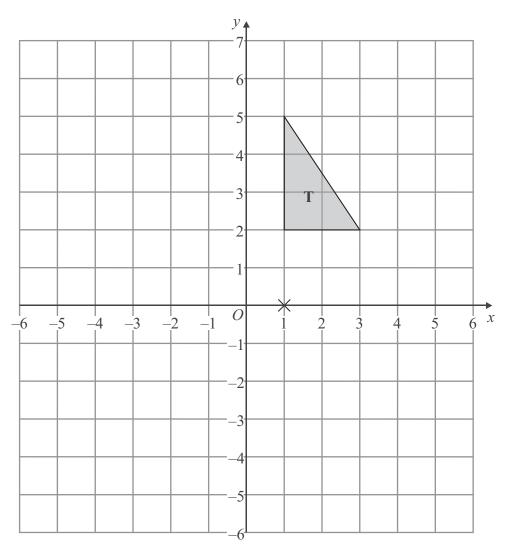
58

58

Draw an ordered stem and leaf diagram to show this information. You must include a key.

Key:

Leave blank



Triangle T has been drawn on the grid.

Rotate triangle T 180° about the point (1, 0). Label the new triangle A.

Q22

Leave blank 23. у Q P Describe fully the single transformation which maps shape ${\bf P}$ onto shape ${\bf Q}$. **Q23** (Total 3 marks)

24.	Anil wants to find out how many DVDs people buy. He uses this question on a questionnaire. How many DVDs do you buy?	Leave blank
	1 - 5 5 - 10 10 - 15 15 - 20	
	Write down two different things wrong with this question. 1	
	2	
	(Total 2 marks)	Q24
25.	Anna and Bill share £40 in the ratio 2:3	
	Work out how much each person gets.	
	Anna £	
	Bill £ (Total 3 marks)	Q25



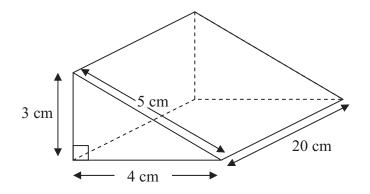


Diagram **NOT** accurately drawn

Work out the volume of the triangular prism.

..... cm²

Q26

(Total 2 marks)

27. Work out 4.52×36

Q27

Leave
blank

28. (a) Factorise 3x + 12

.....(1)

(b) Solve 4(2x-3) = 5x + 7

 $x = \dots (3)$

(c) Expand and simplify (y+4)(y+5)

(2)

(Total 6 marks)

TOTAL FOR PAPER: 100 MARKS

END



Q28

