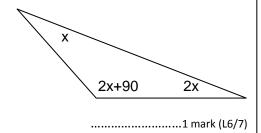
FFX 3-4 Maths Revision Material

Name:		Class:	Date:	
A <u>Nun</u>	nber and the number system			867
1.	(a) Complete the table	of equivalents:		944413 194441 194441 194441
	Percentage	Fraction	Decimal	
		$\frac{3}{20}$		
	40%			
			0.07	
				2marks (L6/1)
		n order of size, starting $\frac{3}{5}$	with the smallest:	500 30 0 0 0 0 30 0 0 0 0 30 0 0 0 0 30 0 0 0 30 0 0 0
				1 mark (L6/1)
2. Th In	alculating ne normal price of a kettle is £56 the sale it is 25% off alculate the sale price of the kett			
			£	2 marks(L6/2)
	ratio of the number of boys to g	irls in a class is 3 : 5.		
	ere are 9 boys	no?		
HOV	w many girls are there in the clas	5 8		
			1 m	girls ark (L6/3)

4. Here is a list of the ingredients to make leek soup for 6 people.	
Table 1 American Company of the Comp	
Ingredients for 6 people	S
600g of leeks	
30g of butter 3 tablespoons of wholemeal flour	
450ml of milk 60ml of water	900 a
Com of water	9939
(a) Work out the amount of leeks needed to make leek soup for 4 people	9
	1mark (L6/4)
(b) Work out the amount of milk needed to make leek soup for 4 people	
(b) Work out the amount of milk hooded to make lock soup for 4 people	
<u> </u>	1mark (L6/4)
5. Work out:	
3 2	
$\frac{3}{4} - \frac{2}{5}$	
^	
	2 marks (L6/5)
C Algebra	
6. The equation: $x^2 - 2x = 40$	3333
has a solution between 7 and 8 Use a trial and improvement method to find this solution. Give your answer co	rrect to 1dp
You must show all your working.	
Tou must show all your working.	
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Tou must show all your working.	
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Tou must show all your working.	
	2 marks (L6/6)

7	All anales	ara	measured	in	dearees
Ι.	All allules	are	measureu	ш	degrees.

(a) Write down an expression in terms of x, for the sum of the angles of this triangle.



The sum of the angles of a triangle is 180°

(b)By forming an equation work out the value of x



x =..... 2 marks (L6/7)

8. Here are the first 5 terms of an arithmetic sequence.

8, 10, 12, 15, 19

Find an expression, in terms of n, for the nth term of the sequence.

.....

2 marks (L6/8)

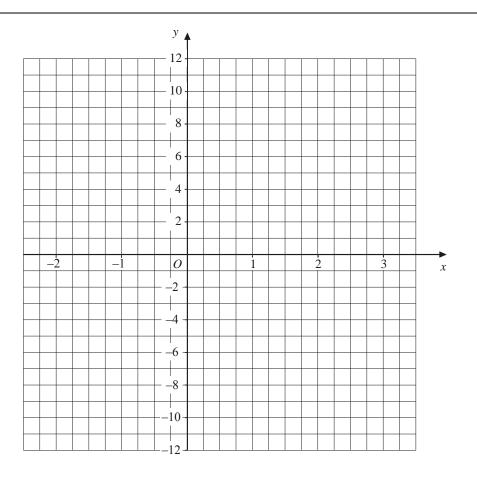
9(a) Complete the table of values for y = 3x + 1

X	-2	-1	0	1	2	3
У	-5		1	4		10

1 mark (L6/9)

On the grid, draw the graph of y = 3x + 1, for values of x from -2 to 3





10. Jamie travelled 20 km from his home to his friend's house.

Jamie then spent some time at his friend's house before returning home.

Here is the travel graph for part of Jamie's journey.

20 Distance 15 10 5

11 00

Time of day

10 40

10 20

Write down the time that Jamie left home. a)

> 1marks (L6/10)

11 40

12 00

1 mark (L6/9)

b) Write down Jamie's distance from home at 10 20

> km 1 marks (L6/10)

11 20

Jamie left his friend's house at 11 10 to return home.

Work out the time in minutes Jamie spent at his friend's house. c)

from

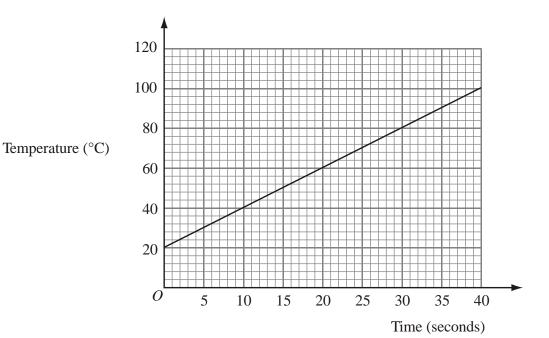
home

(km)

10 00

..... minutes 1 marks (L6/10) 11. Joe heats some water in a kettle.

The graph gives information about the temperature of the water in the kettle and the length of time it has been heated.



a) V	Vrite down	the temperature	of the water	when Joe sta	irted to heat	the water.
------	------------	-----------------	--------------	--------------	---------------	------------

.....°C 1 mark (L6/11)

b) Use the graph to find how many seconds it took the water to reach a temperature of 70°C.

...... seconds 1 mark (L6/11)

D Shape, Space and Measure

12. Name each of the quadrilaterals:

NAME

a) This quadrilateral has exactly ONE pair of parallel sides ------

b)



c) This quadrilateral has 4 equal sides and 4 angles 90°

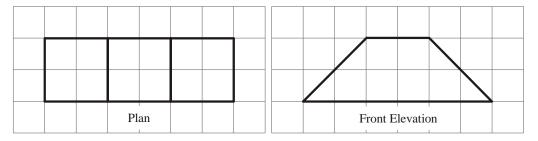






13.	Work out the value of x.	119°) \(\frac{105°}{}\)
		78° x°
	$oldsymbol{z}$	x =
4.4		A
14.		$P \xrightarrow{x} Q$ $50^{\circ} \xrightarrow{B}$
		$R \xrightarrow{y} S$
		D^{\prime}
	(a) (i) Write down the size of the angle marked x.	
	(ii) Give a reason for your answer.	
		1mark(L6/14)
	(b) (i) Write down the size of the angle marked y.	
		٥
	(ii) Give a reason for your answer.	
		1mark(L6/14)
15. k	Kay types the instructions to draw a regular pentagon:	
(m)	repeat 5 [forward 10, left turn 72]	
M	Complete the instructions to draw an octagon.	
	Repeat 8 [forward 10, left turn	
	.,	•
		1mark (L6/15)

16. Here are the plan and front elevation of a solid shape.



(a) On the grid below, draw the side elevation of the solid shape.

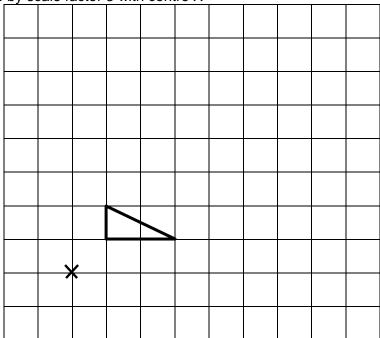
1mark (L6/16)



a) In the space below, draw a sketch of the solid shape.

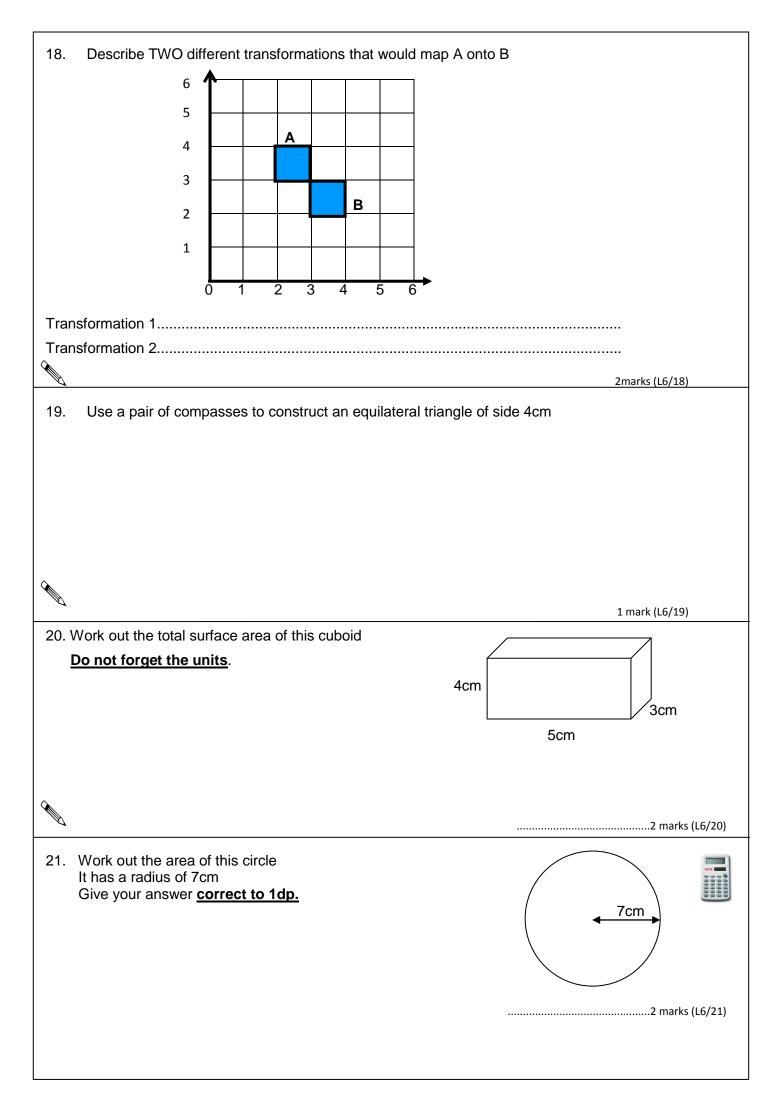
1 mark (L6/16)

17. Enlarge this shape by scale factor 3 with centre X



1mark (L6/17)





E <u>Data Handling</u>

22. 80 children went on a school trip. They went to London or to York.



14 boys went to York.



	London	York	Total
Boys			
Girls			
Total			



2 marks (L6/22)

23. Jan measures the heights, in millimetres, of 20 plants in her greenhouse. Here are her results.

178	189	147	147	166
167	153	171	164	158
189	166	165	155	152
147	158	148	151	172



Complete the stem and leaf diagram to show this information.

2 marks (L6/23)

Stem	Leaf

Key:	
------	--

24. 3 normal coins are tossed. List all the possible outcomesOne outcome is done for you

1 st coin	2 nd coin	3 rd coin
Head	Head	Head



25. Four athletes are taking part in a race.

The table shows the probabilities that Alan, Barbara and Carl will win the race.

Athlete	Alan	Barbara	Carl	Diana
Probability	0.2	0.14	0.3	

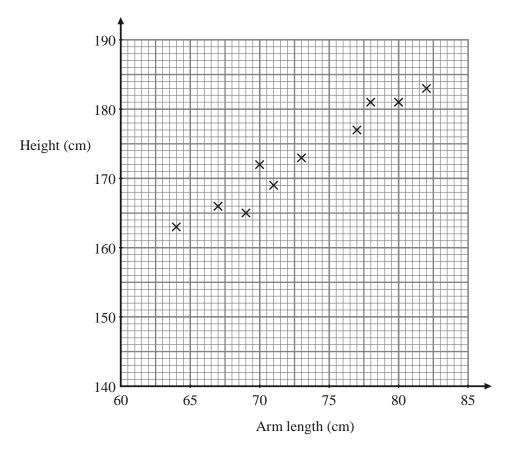


Work out the probability that the Diana will win the race.

Q	M	
	1111	λ
	_ \	13

...... 1 mark (L6/25

26. The scatter graph shows some information about 10 students. It shows the arm length and the height of each student.



(a) What type of correlation does this scatter graph show?

Another student has an arm length of 75 cm.

(b) Use your line of best fit to estimate the height of this student.

 cm

2 marks(L6/26)

