FFX 4/5 Maths Revision

Name: Class:	Date:
A <u>Number and the number system</u>	
1. Fill in the boxes below to give the correct answers.	
0.1 × = 40	1 mark (L7/3)
÷ 0.4 = 10	
2. Work out an <u>estimate</u> for the value of	1mark (L7/3)
	1mark (L7/4)
3. Work out: Use your calculator to work out the value of $\frac{3.54^2}{6.2 \times 1.5}$ Write down all the figures on your calculator display.	
	1 mark (L7/5)
C Algebra 4. Expand & simplify: $(x - 7)(x + 1)$	
	x = 2 marks (L7/6)

5.	Solve these simultaneous equations by an algebraic method:
	Show all working out



$$3x + 2y = 12$$

 $4x - y = 5$

x =

y =

2 marks (L7/7)

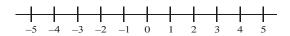
6. (i) Solve the inequality



$$2(x + 3) > 4$$

.....2 marks (L7/8)

(ii) On the number line, represent the solution set to part (i).



1 mark (L7/8)

7.
$$F = 3(a + b)$$

Find F when a = 4 and b = -12



$$F=$$
 1 mark (L7/9)

8. Find the nth term of each of these sequences:



$$T(n) = \underline{\hspace{1cm}}_2 \text{ marks (L7/10)}$$

9.	The we	eight of a bag of potatoes is	25 kg, correct to	the nearest kg.						
	(a)	Write down the smallest possible weight of the bag of potatoes.								
		kç								
	(b)	Write down the largest pos								
						kg				
						2 marks (L7/16)				
E	<u>Data</u>	ı Handling								
10.	He u	udent wanted to find out how many pizzas adults ate. used this question on a questionnaire. www.many.pizzas.have.you.eaten?'								
					S RELEASE					
		A few	A lot		THE PARTY OF THE P					
	(0)			this guestion						
Ça.	(a)	Write down two things tha	t are wrong with	this question.						
	7				_					
Нα	 h aven	is questionnaire to 10 of his			2ma	arks (L7/18)				
110		·								
	(b)	Give two reasons why this	s is not a good w	ay to find out now many p	dizzas adult	s ate.				
		1st Reason								
		2nd Reason								
(
	\				2 ma	arks (L7/18)				
11.		asked 30 students how ma			ol.					
	The	table shows some informati	on about his res	ults.		5000 Barrier B				
		Time taken (t minutes)	Frequency			2223				
		0 < <i>t</i> ≤ 10	6							
		10 < <i>t</i> ≤ 20	11							
		20 < t ≤ 30	8							
		30 < <i>t</i> ≤ 40	5							
	Worl	k out:								
	a)The	modal class								
	a) IIIC	modul olado			1n	nark(L7/20)				
	b) an e	estimate for the mean numb	er of minutes tak	en by the 30 students.						
	-			-	2m	seconds arks(L7/20)				
					2111					

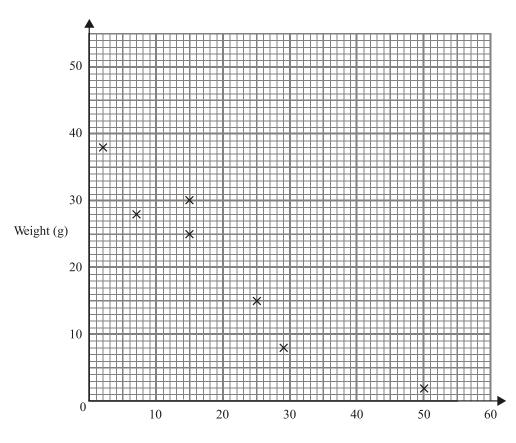
12. The table shows the number of minutes each of ten candles burnt before it went out and the weight left of each candle when it went out.

Time (min)										
Weight (g)	8	25	15	2	38	30	28	20	15	12

(a) Complete the scatter graph. The first 7 points have been plotted for you.

1mark(L7/19)







Time (min)

Describe the **correlation** between the time and the weight.

	1mark/17	/10
 	 TILIGLK(L/	119

(c) A candle had a weight of 10 g when it went out.

Use a line of best fit to estimate the number of minutes this candle burnt before it went out.

