FFX 5/6 Maths Revision

Name: Class:	Date:
A Number and the number system	
1. (a) Write $\frac{7}{15}$ as an exact decimal (b) Write 0.1212121212 as a fraction	1 mark (L8/1)
	1 mark (L8/1)
B <u>Calculating</u>2. (a) (i) Express 0.000043 in standard form	
(ii) Express 7 x 10 ⁴ as an ordinary number	1 mark (L8/3) 1 mark (L8/3)
(b) Work out 3.25 x 10 ⁵ x 2.4 x 10 ⁻¹ Give your answer in standard form	1 mark (L8/3)
C <u>Algebra</u> 3. Factorise the following expressions: (a) x ² - x -12	
(b) x ² - 49	1mark (L8/4)
	1mark (L8/4)



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7. The table shows the medians and interquartile ranges of a group of students exam results					
		Median	Interquartile range		
	Maths Exam	49	32		
	English Exam	54	21		
Comment on the results					
 8. (a) A bag contains red, white and blue balls. A ball is taken from the bag at random. The probability of taking a RED is 0.4. The probability of taking a white is 0.35. What is the probability of taking a white ball OR a blue ball? 					
(b) The probability a car fails its MOT on brakes is $\frac{1}{5}$					
The probability a car fails its MOT on lights is $\frac{1}{10}$.					
What is the probability that the car fails its MOT on both brakes AND lights?					
				1mark (L8/16)	
 There are two sets of traffic lights on Georgina's route to school. The probability that the first set of traffic lights will be red is 0.4 The probability that the second set of traffic lights will be red is 0.3 					
(a) Complete	the probability tree	diagram.		2marks (L8/17)	
	First set		Second set		
		0.3	Red		
Red					
0.4			Not red		
			Red		
	Not red				
			Not red		
(b) Work out the probability that both sets of traffic lights will be red.					
2marks (L8/17)					