Year 7 FFX 5/6 Practice Assessment Answers			
Α	Numbers & the number system	Answer	Mark
1(a)	$\frac{7}{15}$ as decimal	7÷15 = <u>0.46</u>	1
1(b)	0.12121212 as fraction	Let x = 0.1212121212 100x = 12.1212121212 99x = 12 $x = \frac{12}{99} = \frac{4}{33}$	1
В	Calculating		Mark
2(a)	a)(i) 0.000043 in standard form	4.3 x 10 ⁻⁵	1
	(ii) 7 x 10 ⁴ as ordinary number	70000	
2(b)	b) 3.25 x 10 ⁵ x 2.4 x 10 ⁻¹	7.8 x 10 ⁴	1
C	Algebra		Mark
3(a)	Factorise $x^2 - x - 12$	(x - 4)(x + 3)	1
3(b)	Factorise x ² - 49	$\frac{(x + 7)(x - 7)}{9x^2 - 3x - 6x + 2}$	1
4(a)	Expand: (3x - 2)(3x – 1)	$9x^2 - 3x - 6x + 2$ $9x^2 - 9x + 2$	1
4(b)	Expand: (x- y) ²	(x - y)(x - y) $x^{2} - 2xy + y^{2}$	1
5	Make 'a' the subject of: ma ² = F	$ma^{2} = F$ $a^{2} = \frac{F}{m}$ $a = \sqrt{\frac{F}{m}}$	1
6	$S = \frac{u^2 + v^2}{2a}$ Substitute: u = -1, v = -2, a = 2	$S = \frac{u^{2} + v^{2}}{2a}$ = $\frac{(-1)^{2} + (-2)^{2}}{2 \times 2}$ = $\frac{1+4}{4}$ = $\frac{5}{4}$	
		4 = 1.25	1
	Data Handling		Mark
7	Comment on Maths and English results	English results – on average these are better - less spread of results indicated by the smaller interquartile range	1
8(a)	Probability of White OR Blue ball	0.3 + 0.25 0.55	1
8(b)	Probability car fails MOT on		

