Yr 7 FFX 4/5 Practice Assessment Answers								
A	Numbers & the number	Answer	Mark	Criteria				
1	a)Missing number	<b>0.1 x 400</b> = 40	1	3				
	b) Missing number	<b>4 ÷ 0.4</b> = 10	1					
2	Estimate <u>75.1 x 8.3</u> 63.2+3.52	$\frac{80 \times 8}{60 + 4} = \frac{640}{64} = \frac{10}{64}$		4				
3	Work out: $\frac{3.54^2}{6.2 \times 1.5}$	$\frac{12.5316}{0.2} = \frac{1.347483871}{0.2}$		5				
C	Algebra	9.3	Mark	Criteria				
4	Expand $(x - 7)(x + 1)$	$x^{2} + 1x - 7x - 7$	1	6				
		$= \frac{x^2 - 6x - 7}{2}$	1	0				
5	Solve: $3x + 2y = 12$	3x + 2y = 12		7				
	$4x - y = 5(x^2)$	8x - 2y = 10 Add: $11x = 22$	1					
		Substitute: $6 + 2y = 12$						
		2γ = 6	1					
		<u>y = 3</u>						
6	Solve $2(x + 3) > 4$	2x + 6 > 4 2x > -2	1	8				
		$\underline{x > -1}$	1					
	Represent on number line		1					
7	F = <u>3(a + b)</u>	F = 3(4 + -12)		9				
	4	4	1					
	Find F when a = 4 and b = -12	F = 3 x -8	-					
		4						
		= <u>-6</u>						
8	-3, 0, 5, 12, 21,	1 <sup>st</sup> difference : 3, 5, 7, 9		10				
	Find nth term	2 <sup>nd</sup> difference: 2	1					
		n <sup>2</sup> : 1, 4, 9, 16, 25	Ŧ					
		Then (-4) from n <sup>2</sup> gives -3, 0, 5, 12, 21 So nth term $T(n) = n^2 - 4$	1					
9	a) Smallest	24.5 kg	1	16				
	b) Largest	25.5 kg	1					
E	Data Handling		Mark	Critoria				
10	Criticise a guestionnaire	1. Responses to vague	1	18				
		2. No time span	1					
	Criticise sample		1					
		1. Too small a sample	1					
		<ol> <li>Narrow range – just teachers – biased outcome</li> </ol>						
				19				

11	a) Modal class	10 < t ≤ 20		1	20
		Mid class	Totals		
		interval			
		5	5 x 6 = 30		
		15	15 x 11 = 165		
		25	25 x 8 = 200		
		35	35 x 5 = 175	1	
			Total = 570		
	h) Ectimate mean	Est mean = 570 ÷ 30 = <b>19 min</b>		1	
	b) Estimate mean				21
12	Plot 3 points	(30,20) (35,15) (35,12) Negative ~35min with a line of best fit		1	<u> </u>
	Describe correlation			1	
	Estimate minutes for 10g			1	
13	Compare two polygons for	Boys are de	nerally taller than boys	1	23
15	heights of boys and girls	Doyo alo go		-	25
		Reason: The	1		
		girls at the r			
14	a) Cirls Bango	72 40 - 226	-		
14	Boys Bange	72-40 - 32k	5 	1	
	h)Girls median	58kg	ן J ר		
	Boys Median	67kg	}	1	
			C.		
	Comparison	Range shows girls' weights are more spread out			
	·	Median sho	ws boys are heavier in general	1	