Name:

Date:

Class	/Group:	
Ciass	<i>,</i>	

A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure		C: Geometry & Measure & Statistics
1. Simplify : √2 x √10	11:1	11. Make (b) the new subject of :	11:12	21. Work out the angle that BE makes with the plane CDEF. (correct to 3sf)
		$w = \frac{3ab}{}$		
		w - a-b		A B
2. Rationalise & simplify to the	11:2	12. One solution for $\sin x = 0.326$ is $x = 19^{\circ}$. Use the graph to find	11:14	2.8cm
form: p+qV2:		1.5		n
$\sqrt{18} + 10$				C
-/2		0.5		
V Z		-0.5		12cm
		-1		
		another solution.		E 5cm F
		13. This is the graph of $y = f(x)$. Sketch on the grid: $y = f(-x)$	11:15	
		8-1		22. Find the size of angle 'x'? (3sf)
3. If x=16.4(1dp) &	11:3	1	\ /	22. Find the size of angle 'x'? (3sf)
y=4.7(1dp) &			\ /	400
Work out minimum value of			I X	
x ÷y (correct to 2dp)		-5 -4 /3 -2 -1 ₂ 1 2 3 4	/\	3.5cm x ⁰
			/ \	
		6 4 4	/ \	5.5cm
		8 -	/ \	
		-10-J	\	
4. Simplify the following fraction:	11:4	14. Estimate the area under the graph between x = 2 and 5	11:16	
$x^2 + 5x + 4$		* 10		
				23. Find the length of the side'x'?(1dp)
4x + 16		\8 -		23. Find the length of the side'x'?(1dp)
				23 ⁰ 9cm
				7cm \
5. Solve:	11:5			Х
8 3 3x				
${x+2} - {x-2} = {x^2-4}$		1		
		-2 -1 0 1 2 3 4 5 6		
			11:18	
		15. Find equation of tangent at the point P(1, -4) on a circle with centre (2,-2)	11.10	
		with tende (2,-2)		

