Maths Key Skills		Date:		e 11: Skill Check 6 :/Group:
A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure		C: Geometry & Measure & Statistics
1. Express V72 in the form a√b	11:1	11. Make (b) the new subject of : ab = b + x	11:12	21. Work out the angle that the base makes with the sloping face. (correct to 3sf)
2. Expand & simplify: (2+√3)(7-√3)	11:2	12. This the graph of y = sinx Give two solutions for sin x = -0.5 1.5 0.5 0.5 -1.5 13. This is the graph of y = f(x). Sketch on the grid: y = f(x)+2	11:14	14cm 10cm 10cm
3. If x=16.4(1dp) and y=4.7(1dp) Work out maximum value of x - y	11:3			22. Find the length of side 'x'? (1dp) x 11.27 x 118^{0} 38^{0} 14 cm
4. Simplify the following fraction: 8 3x	11:4	14. Estimate the area under the graph between $x = 0$ and 4	11:16	
$\frac{\frac{8}{x-1} + \frac{3x}{(x-1)^2}}{5. \text{ Solve: } \frac{2x+1}{7} = \frac{1}{x-2}}$	11:5			23. Find the size of angle 'x'?(1dp)
		15. Write down the equation of the tangent at (-1,3) on the circle $x^2+y^2 = 10$	11:18	

