Name:

Date:

Class/Group:

A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure		C: Geometry & Measure & Statistics
1. Write v50 in the form kv2	11:1	11. Rearrange the formula: ab + bc = T to make 'b' the new subject.	11:12	21. Work out the marked angle x (correct to 3sf) 3cm 6cm
2. Rationalise the denominator: $\frac{1}{\sqrt{5}}$	11:2	12. Sketch the graph of y = sin x 1	11:14	X
3. If x = 6.4 (1dp) and y = 8.3(1dp) Work out maximum value of x + y	11:3	y = f(x)		22. $\underline{x} = \underline{8cm}$ Find x(correct to 1dp) $\underline{sin38^0}$ $\underline{sin60^0}$
4. Simplify the following fraction: $\frac{x^2+x-6}{x^2-7\times+10}$ 5. Solve: $\frac{5}{x+1}+\frac{3}{x-1}=2$	11:4	14. Estimate the distance travelled between 0 and 4 seconds. 50 40 40 10 0 1 2 3 4 5 time(s)	11:16	23. $\cos x = \frac{4^2 + 7^2 - 9^2}{2x4x7}$ Find angle x(correct to 3sf)
		15. Write down the equation of the tangent at $(3,4)$ on the circle $x^2+y^2=25$	11.16	

