Name: .....

Date: .....

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Class/G	roup:		 	

A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure		C: Geometry & Measure & Statistics
1. Write <b>V50+V18</b> in the form kV2	11:1	11. Make (t) the new subject of : $S = \sqrt{\frac{t^2 - 3}{4}}$	11:12	21. Work out the angle BE makes with the base (correct to 3sf)  A  B  11:26
2. Rationalise the denominator & simplify: $\frac{4}{2-\sqrt{2}}$	11:2	12. This is the graph of y = tanx Give TWO solutions for tan x = 0		2.8cm D 12cm
3. A sack contains 20kg of chicken pollets (to	11:3	13. This is the graph of $y = f(x)$ . Sketch on the grid: $y = f(x-2)$	11:15	22. Find the angle 'x'? (1dp) 11:27
chicken pellets (to nearest kg). Each day the chickens are given 800g (to the nearest 10g). Work out the maximum number of days the pellets last? (to nearest day)		3 - 1 - 2 - 4 - 2 - 4 - 3 - 5 - 7 - 11 - 11 - 11 - 11 - 11 - 11 -		x 9.2m
4. Simplify the following fraction: $\frac{x+3}{x^2-4x} \times \frac{x}{(x+3)^2}$	11:4	14. Estimate & interpret the area under the graph.	11:16	23. Find the angle 'x'? (3sf)  9cm  7cm
5. Solve: $\frac{x-1}{x+3} = x$	11:5	time(s)  15. Write down the equation of the tangent at (5,4) on the circle with centre (2,1)	11:18	10.5cm

