Name:

Date:

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Name		Date	Class/ G	Τουρ
A: Number & Algebra	1	B: Algebra, Proportion, Geometry & Measure	•	C: Geometry & Measure & Statistics
1. Simplify: V18 - V8	11:1	11. Make (g) the new subject of : $f = 3g - 4 + gh$	11:12	21. Work out the angle that base makes with the broken line. (correct to 3sf)
2. Expand & simplify: $(3+\sqrt{2})(4+\sqrt{2})$	11:2	12. This the graph of y = cosx Give two solutions for cos x = 0	11:14	3cm 12cm
3. If x=3.8(1dp) and y=4.60(2dp) Work out minimum value of $\mathbf{y} - \mathbf{x}$.	11:3	13. Sketch on the grid: $y = f(-x)$ $y = f(x)$	11:15	22. Work out the angle x (1dp) 13cm 8.5cm
4. Simplify the following fraction: $\frac{5\times}{\times -3} - \frac{2\times}{\times +4}$	11:4	14. Estimate the area under the graph between x = 1 and 3	11:16	
5. Solve: $\frac{x+5}{x-3} = x$	11:5	0.6		23. Work out the side AC (3sf) 11:28 7.2 cm 40°
		15. Write down the equation of the tangent at (2,1) on the circle $x^2+y^2=5$	11:18	

 6. If f(x) = x² - 4x, solve f(x) = 0 7. Find the turning point of: y= x² -6x-3 	11:7	16. Estimate the gradient of the chord, give mean state of the cho	8 10	11:20	24. If $\overrightarrow{AB} = 2\underline{\mathbf{b}} - 2\underline{\mathbf{a}}$ and $\overrightarrow{CD} = \frac{1}{2}(-\underline{\mathbf{a}} + \underline{\mathbf{b}})$ Prove that AB is part	rallel to CD	11:29	
8. Solve by completing the square: $x^2 + 5x + 2 = 0$ (Write down the EXACT values)	11:9	17. $2x^2$ - $3x$ - 1 = 0 can be solved using the iterat $\times_{n+1} = \sqrt{\frac{3 \times_n + 1}{2}}$ Start with x_1 = 2 and work out an approximation 18. Work out the angle 'x' given the area of this triangle is 54 cm². (Correct to nearest whole degree)	(to 1dp)	11:21	25. Use the table to c Time (t seconds $0 < t \le 10$ $10 < t \le 20$ $20 < t \le 25$ $25 < t \le 30$ $30 < t \le 50$	mplete the histogram: Frequency 8 16 15 12 6	11:30	
9. To solve: 2x² +x -3= 0 by formula. 10. Write down the solution set	11:10	19. O is the centre. Work out angle x.	24 ⁰ P	11:23	Frequency density			
for: $(x + 4)(x + 1) > 0$		that will fit inside this cylindrical tin. (correct to 1dp)	10cm			20 30 40 5 Time (seconds)		
Total (A)		Total (B)			Total (C)			
Test Total (A+B+C)		R (0-9) Y (G (20-25)			