Class/Group: Name: Date: A: Number & Algebra B: Algebra, Proportion, Geometry & Measure C: Geometry & Measure, Statistics & Probability 1. Write the answer in 10:1 11. Find the total distance travelled. 10:13 21. A shape has an area of 16cm². What is the area of a shape 10:25 100 4cm² standard form: 590000 which is ½ the corresponding lengths of it? Velocity in m/s
10
2 +300 $(6x10^5)-(1x10^4)$ 5.9x10⁵ **22.** The angle $a = 104^{\circ}$ Give the reason. 10:19 +150 Angle at =550m centre =2x angle at 0 10 20 30 40 circum. time in seconds 2. Estimate to 1dp the value of: 10:2 12. What inequality is represented here? 10:14 23. A bag has 4 black balls and 2 white balls. Work out the probability that if 2 10:28 4/6x3/5 ³√85 4+21/61 are chosen at random, they will both be black =2/5 y≥x ≈4.4 4 3 2 24. Work out the inter-quartile range from this graph 1 10:29 40 0 1 2 3 4 9-1/2 10:3 13. Find the nth term of this sequence: 10:15 commulative freduency 25 20 15 10 37-20 3. Evaluate: Upper quartile $n^2 + n$ 1/3 2, 6, 12, 20, 30, 42, =17min 10:4 14. Find the 5th term of the geometric 10:16 4. Convert the recurring 628/999 decimal to a fraction: 0.628sequence: 18 2, 2√3, 6, ... 5. How many different labels 10:5 10:17 15. Espresso coffee contains 75mg of caffeine. 75x0.854 4x7 can be made using a letter & a Lower quartile In the body its levels decrease by 15% =28 =39.2mg number using letters A,B,C,D & per hour. How much is left after 4h? numbers 0,1,2,3,4,5,6? 10:18 6. Expand: (y+3)(y+1)(y-1)x = 3, y = 1816. $y=2x^2$ 20 30 40 10 Find an equation for y in terms of x if y is $(y+3)(y^2-1) = y^3 - y + 3y^2 - 3$ directly proportional to x² time in min 7. Factorise: $2x^2 - 7x + 6$ 17. Give the length of arc radius 3cm & angle 10:21 40° in terms of π ²/₃π cm (2x-3)(x-2)8. Give the gradient of a line 10:8 10:22 18. Give the area of sector radius 3cm 25. Estimate the inter-quartile range from this box plot 10:30 -3 & angle 40° in terms of π π cm² ≈69-23 perpendicular to: $y = \frac{1}{3}x - 1$ =46% 10:9 19. Give the curved surface area of a 10:23 9. Work out the equation of cone of r= 6cm & slant height 7cm in 42π cm² a line passing through (2,1) y = 3x - 5terms of π (CSA = π rl) l=slant height & (-1.-8) 10:12 20. Give the volume of a cone of radius 10:24 0 10 20 30 40 50 60 70 80 90 100 10. Work out the roots of the $512\pi/3$ 8cm & perpendicular height 8cm in quadratic graph with the x = -2&1Test Score (%) terms of π .(V= $\frac{1}{3}\pi r^2 h$) h=perpendicular height equation $x^2 + x - 2 = 0$ Total (A) Total (B) Total (C) Test Total (A+B+C) R (0-9) Y (10-19) G (20-25)