Maths Key Skills

Stage 10: Skill Check 6

•									
Name:		Date:		:			A	0 - 1 1	
A: Number & Algebra 1. Write the answer in standard form (8 x 10 ⁵) ÷ (4 x 10 ⁻³)	10:1	B: Algebra, Proportion, Geometry & Measure 11. Describe the journey BC		10:13	C: Geometry & Measure, Statistics & Probability 21. Cuboids A & B are similar The SA of A = 60cm ² The SA of B = 1500cm ² The lengths of B = ? x lengths of A 22. M is the midpoint of AB. What else can be derived from this fact?				10:26
									10:19
2. Estimate to 1dp the value of: $\sqrt{19}$	10:2			10:14	23. Here is a table of the right & left hand students in a class. Work out the probability that a person chosen at random will be: Left-handed, given that she is female i.e. p(L F) (R) (L) Total Male (M) 8 3 11 Female (F) 5 2 7 Total 13 5 18			10:28	
3. Evaluate: 27 ^{2/3}	10:3	13 Find the nth term of this 2, 8, 18, 32, 50,	10:15	24. Complete the cumulative frequency table Score f Score cf			10:29		
4. Convert 0.5 to a fraction	10:4	14. The nth term of a geom down the first 3 terms.	etric sequence is $\sqrt{3}^n$. Write	10:16	0≤h<20	4	0≤h<20		
5. From 10 different toppings, you can choose any 3. How many combinations?	10:5	15. Work out the balance for £2400 invested for 10 years at 5% per annum		10:17	20≤h<40 40≤h<60	11 13	0≤h<40 0≤h<60		
6. Expand: (x-4)(x+1)(x-3)	10:6	16. s = 40, e = 225 Find an equation for s in term proportional to Ve	ms of e if s is directly	10:18	60≤h<80 80≤h<100	15 7	0≤h<80 0≤h<100		
7. Factorise: $4a^2 - b^2$	10:7	17. Give the length of arc dia terms of π	10:21	25. On <u>average</u> who had the better scores, boys or 10:30 girls?					
8. Give the gradient of a line perpendicular to: $y = 8 - \frac{1}{2}x$	10:8	18. Give the area of sector α & angle 45° in terms of π	10:22						
9. Work out the equation of a line joining (3,2) & (0,5)	10:9	19. Give the CSA of a cone c perpendicular height 4cm in (CSA = π rl) l=slant height	10:23	Boys' scores					
10. Work out the roots of the quadratic graph with the equation $x^2 - 25 = 0$	10:12	 20. Give the volume of a corperpendicular height 8cm in (V= ¼πr²h) h=perpendicula 	10:24						
Total (A)		Total (B)							
Test Total (A+B+C)		R (0-9) Y (10-19)			G (20-25)				