Maths Key Skills

Name:		Date:		Class/Group:			•	
A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure		C: Statistics & Probability				
1. Work out: 0.8 x 0.3	8:1	11. Expand & simplify: (p + 2) ²	8:16	21. The probabilities of getting each number on a spinner is shown below				8:26
2. Write 40 as the product of its prime factors.	8:2	12. The ratio of dogs : cats in a rescue centre is 4:5. What proportion of animals in the centre are cats?	8:17	1 2 0.15 0.05 Find x	3 0.2	4 0.15	5 x	
3. Estimate by rounding to 1sf an answer to: 97.2 x 1.57	8:3	13. Purple paint is made by mixing red and blue in a ratio of red 3 : 4. How many litres of purple paint could I make with 9 litres of red?	8:18	22. Of 30 students 14 were boys. 5 boys & 8 girls took packed lunch. Find the probability that a student chosen will be a girl & does not take packed lunch?				8:27
4. Evaluate:	8:4	14. A bike bought for £100 was sold for 20% less. What was the selling price?	8:19					
5. Factorise: ax + ay	8:6	15. A vehicle travelled 15 miles in 2½ h. What was the speed in mph?	8:20	23. A dice is thrown twice. Write down the ways of obtaining a total score of 10.				8:28
6. Simplify: 3y x 2y ⁴	8:7	16. What is the size of one of the exterior angles of a hexagon?	8:21					
7. Make 'm' the subject of the formula: y = mx	8:8	17. Work out the circumference of a circle with radius 3cm in terms of π .	8:22	24. What is the median class interval? Score Frequency 1-5 2				8:29
8. Solve: 3y - 4 = 2y - 7	8:10	18. Work out the volume of this prism. 3m	8:23	6-10 11-15 16-20	5	5 9 3		
9. What is the gradient of the graph with the equation: $y = 1 - 3x$	8:12	19. Enlarge triangle by sf ½ centre X	8:24	 25. What correlation would you expect to see on a scatter graph showing the following two variables? Number of days absent from school Rate of progress 				8:30
10. Give the nth term of the sequence5791113	8:15	20. A map scale is 1:50000. What would 4cm represent in kilometres?	8:25]				
Total (A)		Total (B)		-	Total (C)			
Test Total (A+B+C)		R (0-9)	Y ((10-19)	G (20-25)			