Maths	Key	Skills
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Stage 8: Skill Check 6 - Answers

Name:		Date:		Class/Group:	
A: Number & Algebra B: Algebra, Proportion, Geometry & Measur		Measure	C: Statistics & Probability		
1. Work out: 0.8 ÷ 0.02	^{8:1} 80÷2=40	11. Expand & simplify: (2d - 1) ²	8:16 4d²-4d+1	21. The probabilities of getting each colour on a spinner are shown below. Find x	8:26
2. Write 30 as the product of its prime factors.	8:2 2x3x5	12. The ratio of adults : students on a trip is 1:4. What proportion of the group on the trip are students?	8:17 <u>4</u> 5	RedBlueGreenYellow0.320.08x0.15	1-0.55 =0.45
3. Estimate by rounding to 1sf an answer to: 6.14 ÷ 0.49	8:3 6÷0.5 = 12	13. To make pink paint, Annie needs 1 tin of red and 3 tins of white. Describe the relationship between the 2 colours.	8:18 R:W= 1:3 or W=3xR or ¾ of paint is white	22. Of 28 students 16 were boys. 3 boys and 5 girls wear glasses. Find the probability that a student chosen will be a girl & does not wear glasses?	$\frac{8:27}{\frac{7}{28}} = \frac{1}{4}$
4. Evaluate: √2187 📓	3	14. A bike bought for £100 was sold for 20% less. Complete the multiplication sum to find the selling price?	100 x 0.8		
5. Factorise 8x - 12	^{8:6} 4(2x – 3)	15. A vehicle travelled 56km/h. What was the speed in mph? (8km=5miles)	8:20 35mph	23. A dice is thrown twice. Write down the ways of obtaining a total score of 6	8:28 1/5· 2/4· 3/3·
6. Simplify $y^2 + y^2 + y^2$	8:7 3y²	16. What is the size of one of the exterior angles of a pentagon?	8:21 72⁰		4/2; 5/1
7. Make 'b' the subject of the formula: a = b - c	^{8:8} b = a+c	17. Work out the area of a circle with radius 5cm in terms of π .	^{8:22} 25π cm ²	24. What is the modal class interval? Score Frequency 1-5 2	8:29 11-15
8. Solve: 3(x +1) = x + 8	8:10 3x+3=x+8 2x = 5 x = 2.5	18. Work out the volume of this prism. 11cm 8cm ²	8:23 8x11 = 88cm ³	6-10 5 11-15 9 16-20 3	
9. What is the gradient of the graph with the equation: y = 5x + 8	8:12 5	19. Describe the transformation B to A	8:24 Enlargement Sf=1/2 Centre X	25. Indicate on the graph where you could interpolate	8:30
10. Give the nth term of the sequence:3 8 13 18 23	8:15 5n-2	20. A model boat is made to a scale1:20. The model boat is 15cm long.How long is the real boat?	8:25 300cm = 3m	# 6 4 2 0 0 100 200 300 0 100 200 300 time in minutes 0 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100	
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Υ ((10-19) G (20-25)	