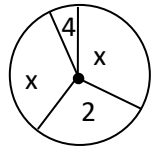
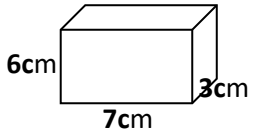
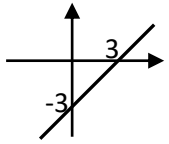
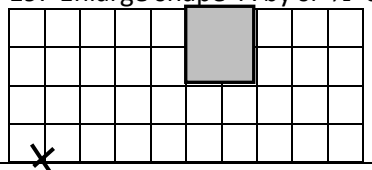
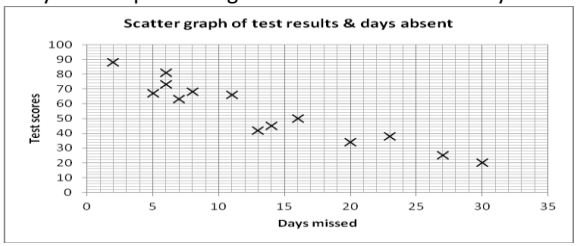
Maths Key Skills **Stage 8: Skill Check 15**

Name: ..... Date: ..... Class/Group: .....

A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure		C: Statistics & Probability	
1. If 5.6 x 3.5 = 19.6 What is 196 ÷ 3.5?	*8:1*	11. Expand & simplify: (y+3)(y – 4)	*8:16*	21. On a spinner P(4) = 0.06 P(2) = 0.28 Work out x 	*8:26*
2. Write 100 as the product of its prime factors. Circle your choice $2^2 \times 25$ 4×5^2 $2^2 \times 5^2$	*8:2*	12. 2 out of 7 nursery children were left handed. Write the ratio of Right to Left handed.	*8:17*		
3. Estimate by rounding to 1sf an answer to: $\frac{10.1 \times 29.7}{5.9 - 3.1}$	*8:3*	13. For green, you mix 8 parts yellow to 6 parts blue. How much blue is needed to add to 12 litres of yellow?	*8:18*	22. 100 Year 8s opted for History or Geography. Out of the 67 who opted for Geography, 42 were girls. 18 girls opted for History. What is the probability of choosing a boy who opted for History?	*8:27*
4. If $2^9 = 512$, what is 2^8 ?	*8:4*	14. To decrease an amount by 7%, circle your choice of multiplier x 1.07 x 0.93 x 0. 07 x 1.7	*8:19*		
5. Factorise: $4y - 10y^2$	*8:6*	15. Chris cycles at an average speed of 8 mph. If he cycles for 6½ hours, how far does he travel?	*8:20*	23. A spinner has equal sections 1,2,3 & 4. The spinner is spun twice. What is the probability of scoring a total of at least 5 from 2 spins?	*8:28*
6. Simplify: 2^{-2}	*8:7*	16. What is the size of the interior angle of an octagon?	*8:21*		
7. Make 'b' the subject of the formula P = 2l + 2b	*8:8*	17. Give the circumference of a circle with **radius** 2.4m in terms of π	*8:22*	24. Work out the modal class interval.	*8:29*
8. Solve: 3(x – 5) = x - 4	*8:10*	18. Work out the volume of this prism. 	*8:23*		
9. Write down the equation of this graph. 	*8:12*	19. Enlarge shape A by sf ½ centre X 	*8:24*	25. Can you extrapolate to give the test result for 50days missed? 	*8:30*
10. Give the nth term of this sequence: **9, 13, 17, 21, ...**	*8:15*	20. A map has a scale of **1 : 20000** What scale distance would represent 100m?	*8:25*		
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	