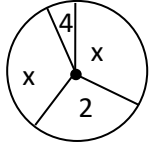
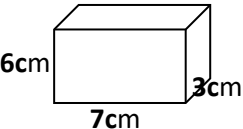
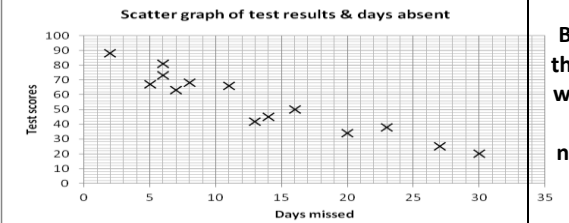
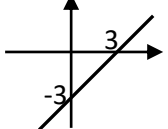
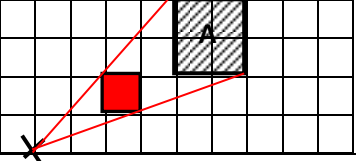


**Maths Key Skills**

**Stage 8: Skill Check 15 - Answers**

Name: ..... Date: .....

Class/Group: .....

A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure		C: Statistics & Probability													
1. If $5.6 \times 3.5 = 19.6$ What is $196 \div 3.5$ ?	8:1 <b>56</b>	11. Expand & simplify $(y+3)(y-4)$	8:16 <b><math>y^2 - y - 12</math></b>	21. On a spinner $P(4) = 0.06$ $P(2) = 0.28$ Work out x	8:26 $\frac{1}{2}(1-0.34)$ $=\frac{1}{2}(0.66)$ <b>=0.33</b>												
2. Write 100 as the product of its prime factors. Circle your choice $2^2 \times 25$ $4 \times 5^2$ <b><math>2^2 \times 5^2</math></b>	<del>8:2</del>	12. 2 out of 7 nursery children were left handed. Write the ratio of Right to Left handed.	8:17 <b>R:L 5:2</b>														
3. Estimate by rounding to 1sf an answer to: $\frac{10.1 \times 29.7}{5.9 - 3.1}$	8:3 $\frac{10 \times 30}{6 - 3}$ <b>= 100</b>	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 <b>9 litres</b>	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 $\frac{15}{100}$ or $\frac{3}{20}$												
4. If $2^9 = 512$ , what is $2^8$ ?	8:4 $1024 \div 2$ <b>=256</b>	14. To decrease an amount by 7%, circle your choice of multiplier $\times 1.07$ <b><math>\times 0.93</math></b> $\times 0.07$ $\times 1.7$	<del>8:19</del>	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 $\frac{10}{16}$ or $\frac{5}{8}$												
5. Factorise: $4y - 10y^2$	8:6 <b><math>2y(2-5y)</math></b>	15. Chris cycles at an average speed of 8 mph. If he cycles for $6\frac{1}{2}$ hours, how far does he travel?	8:20 <b>52 miles</b>	24. Work out the modal class interval.	8:29 <b>6-10</b>												
6. Simplify: $2^{-2}$	8:7 <b><math>\frac{1}{4}</math></b>	16. What is the size of the interior angle of an octagon?	8:21 <b><math>135^\circ</math></b>	<table border="1" data-bbox="1543 868 1861 1098"> <thead> <tr> <th>Score</th> <th>Frequency</th> </tr> </thead> <tbody> <tr> <td>1-5</td> <td>2</td> </tr> <tr> <td>6-10</td> <td>9</td> </tr> <tr> <td>11-15</td> <td>5</td> </tr> <tr> <td>16-20</td> <td>3</td> </tr> <tr> <td>21-25</td> <td>1</td> </tr> </tbody> </table>	Score	Frequency	1-5	2	6-10	9	11-15	5	16-20	3	21-25	1	
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7. Make 'b' the subject of the formula $P = 2l + 2b$	8:8 <b><math>b = \frac{P-2l}{2}</math></b>	17. Give the circumference of a circle with radius 2.4m in terms of $\pi$ .	8:22 <b><math>4.8\pi</math> m</b>	25. Can you extrapolate to give the test result for 50 days missed?	8:30 <b>NO</b>												
8. Solve: $3(x - 5) = x - 4$	8:10 $3x - 15 = x - 4$ $2x = 11$ <b><math>x = 5.5</math></b>	18. Work out the volume of this prism. 	8:23 <b><math>126\text{cm}^3</math></b>		Because the result would go into a negative value												
9. Write down the equation of this graph. 	8:12 <b><math>y = x - 3</math></b>	19. Enlarge shape A by sf $\frac{1}{2}$ centre X 	<del>8:24</del>														
10. Give the nth term of this sequence: <b>9, 13, 17, 21, .....</b>	8:15 <b><math>4n + 5</math></b>	20. A map has a scale of <b>1 : 20000</b> What scale distance would represent 100m?	8:25 <b>0.5cm or 5mm</b>														
<b>Total (A)</b>		<b>Total (B)</b>		<b>Total (C)</b>													
<b>Test Total (A+B+C)</b>		<b>R (0-9)</b>	<b>Y (10-19)</b>	<b>G (20-25)</b>													