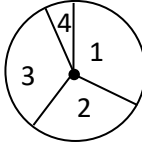
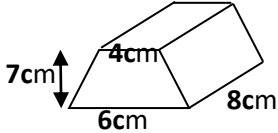
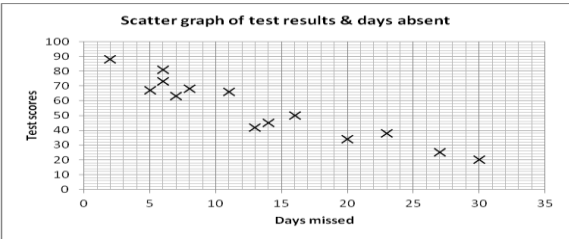
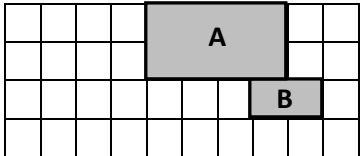


**Maths Key Skills**

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

**Stage 8: Skill Check 14**

Class/Group: .....

A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure		C: Statistics & Probability												
1. If $5.6 \times 3.5 = 19.6$ What is $56 \times 3.5$ ?	8:1	11. Expand & simplify $(x - y)(x + y)$	8:16	21. On a spinner $P(1) = 0.34$ $P(2) = 0.26$ $P(3) = 0.36$ Work out $p(4)$	8:26											
2. Write 56 as the product of its prime factors.	8:2	12. $\frac{3}{5}$ of a class are girls. Write the ratio of Boys : Girls	8:17		8:27											
3. Estimate by rounding to 1sf an answer to: $626$ $3.1 \times 9.7$	8:3	13. For green, you mix 7 parts yellow to 5 parts blue. How much of each colour is needed to make 6 litres of green?	8:18													
4. If $3^5 = 243$ , what is $3^6$ ?	8:4	14. A school had 840 pupils last year. This year there has been a 5% decrease. Complete the multiplier to get this year's population of pupils? <b>840x.....</b>	8:19	22. 48 people attended a school club for tennis or athletics; 28 were males. 13 females chose tennis. Find the probability that one person chosen was a female who chose athletics?	8:28											
5. Factorise: $2a^2 + 6a$	8:6	15. Convert 20m/min to km/h?	8:20	23. A spinner has equally likely numbers 1, 2, 3 & 4. The spinner is spun twice. What is the probability of scoring a total of 5 from 2 spins?												
6. Simplify : $a^2 \times a^2 \times a^2 \times a^2$	8:7	16. What is the size of the exterior angle of an octagon?	8:21	24. Work out the median class interval.	8:29											
7. Make 'l' the subject of the formula $P = 2l + 2b$	8:8	17. Work out the area of a circle with radius 20cm in terms of $\pi$ .	8:22			<table border="1" data-bbox="1543 828 1854 1134"> <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
Score	Frequency															
1-5	2															
6-10	9															
11-15	5															
16-20	3															
21-25	1															
8. Solve: $b + 9 = 4 - 4b$	8:10	18. Work out the volume of this prism. 	8:23	25. Interpolate the test result for 17 days missed 	8:30											
9. Write down the y-intercept of the graph with the equation $y = 3 - 4x$	8:12	19. Describe the transformation A to B 	8:24													
10. Give the first 3 terms of the sequence with the nth term = $5 - 2n$	8:15	20. A map has a scale of <b>1 : 50000</b> What real life distance is represented by 6cm? Give you answer in km	8:25													
<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>												