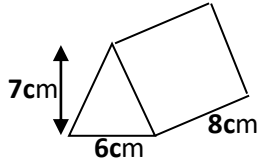
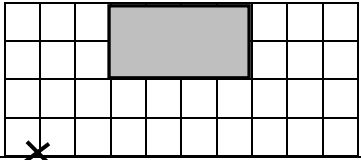
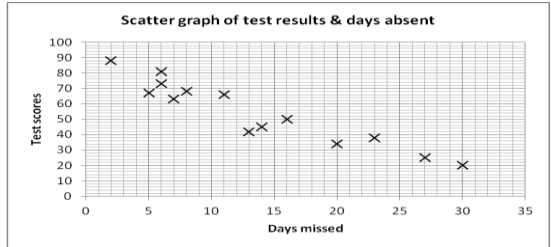


**Maths Key Skills**

**Stage 8: Skill Check 13**

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

Class/Group: .....

A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure		C: Statistics & Probability																			
1. If $32 \times 2.8 = 89.6$ What is $89.6 \div 28$ ?	8:1	11. Expand & simplify: $(y - 5)(y - 2)$	8:16	21. The probability of a train being on time is 0.69. The probability of a train being early is 0.07. Work out the probability that a train is late?	8:26																		
2. Write 60 as the product of its prime factors. Circle one of these $2 \times 5 \times 6$ $2 \times 3 \times 10$ $2^2 \times 3 \times 5$	8:2	12. The number of boys in a class is 3 times the number of girls. Write this as a ratio.	8:17																				
3. Estimate by rounding to 1sf an answer to: $\frac{68 \times 401}{198}$	8:3	13. For orange, you mix 13 parts yellow to 7 parts red. How much of each colour is needed to make 10 litres of orange?	8:18	22. 56 people attended a school club for tennis or athletics; 36 were males. 16 females chose tennis. Find the probability that one person chosen was a female who chose athletics?	8:27																		
4. If $4^3 = 64$ , what is $4^4$ ?	8:4	14. A school had 840 pupils last year. This year there has been a 5% increase. What is the current number?	8:19																				
5. Factorise: $14 + 7y$	8:6	15. Convert 20m/sec to km/h?	8:20	23. A spinner has equally like numbers 1,2,3 & 4 on. The spinner is spun twice. What is the probability of scoring two numbers the same?	8:28																		
6. Simplify: $a^2 + a^2 + a^2 + a^2$	8:7	16. How many triangles in an octagon?	8:21																				
7. Make 'n' the subject of the formula $M = 3n + p$	8:8	17. Give the circumference of a circle with radius 20m in terms of $\pi$	8:22	24. Estimate the mean score	8:29																		
8. Solve: $7p + 2 = 5p - 4$	8:10	18. Work out the volume of this prism. 	8:23	<table border="1"> <thead> <tr> <th>Score</th> <th>Frequency</th> <th></th> </tr> </thead> <tbody> <tr> <td>1-5</td> <td>2</td> <td></td> </tr> <tr> <td>6-10</td> <td>9</td> <td></td> </tr> <tr> <td>11-15</td> <td>5</td> <td></td> </tr> <tr> <td>16-20</td> <td>3</td> <td></td> </tr> <tr> <td>21-25</td> <td>1</td> <td></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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1-5	2																						
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9. Write down the gradient of the graph with the equation: $y = 3 - 4x$	8:12	19. Enlarge rectangle by sf $\frac{1}{2}$ centre X 	8:24	25. Draw in the line of best fit 	8:30																		
10. Give the first 3 terms of the sequence with the nth term = $3n - 2$	8:15	20. A map has a scale of <b>1 : 50000</b> What real life distance is represented by 4cm? Give you answer in km	8:25																				
Total (A)		Total (B)		Total (C)																			
Test Total (A+B+C)		R (0-9)	Y (10-19)		G (20-25)																		