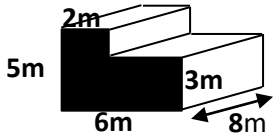
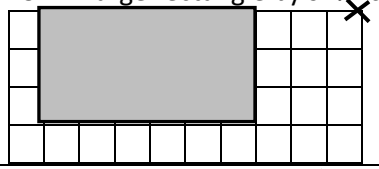
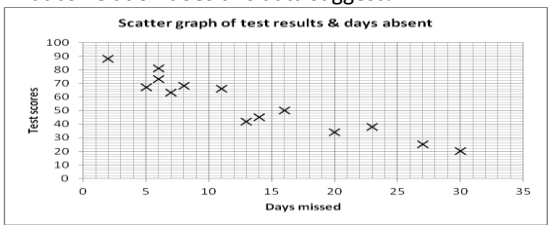
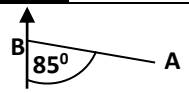
Maths Key Skills **Stage 8: Skill Check 12**

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

A: Number & Algebra		B: Algebra, Proportion, Geometry & Measure		C: Statistics & Probability	
1. If 32 x 2.8 = 89.6 What is 896 ÷ 32?	*8:1*	11. Expand & simplify: **(2x + 1)(3x – 7)**	*8:16*	21. Carol went to the library to choose a book about cookery or sewing or knitting. P(a sewing book) = 0.09 P(knitting) = 0.27 Work out the probability of choosing a cookery book	*8:26*
2. Write 45 as the product of its prime factors.	*8:2*	12. The ratio of red : blue tiles is 5:4. 4/9 of the tiles are blue. Circle **TRUE** or **FALSE**	*8:17*		
3. Estimate by rounding to 1sf an answer to: 43.9 ÷ 0.18	*8:3*	13. In a pet shop the ratio of rabbits to guinea pigs is 3 : 2. There were 10 guinea pigs. How many rabbits?	*8:18*	22. Of 84 cats & dogs in a sanctuary, 50 are dogs. 18 of the cats are female. What is the probability of choosing a male cat?	*8:27*
4. Evaluate: 3^5	*8:4*	14. Some running shoes priced £62 have a 5% discount. Complete the multiplier to give the selling price?	*8:19* **62x.....**		
5. Factorise: 4ab – 10b	*8:6*	15. Convert 50m/sec to km/h?	*8:20*	23. A spinner has equally like numbers 1,2 & 3 on. The spinner is spun twice. What is the probability of scoring two numbers the same?	*8:28*
6. Simplify: $4a^3 \div 2a^2$	*8:7*	16. What is the sum of the interior angles of a heptagon?	*8:21*		
7. Make 'p' the subject of the formula M = 3n + p	*8:8*	17. Work out the area of a circle with **diameter** 26cm in terms of π.	*8:22*	24. Give the modal class interval score **Score** / **Frequency** 1-5 / 1 6-10 / 6 11-15 / 7 16-20 / 11	*8:29*
8. Solve: x - 5 = 3(x - 4)	*8:10*	18. Work out the volume of this prism. 	*8:23*		
9. Write down the equation of a straight line graph with a gradient of -2 and cuts the y-axis at +3	*8:12*	19. Enlarge rectangle by sf ⅓ centre X 	*8:24*	25. What correlation does this data suggest? 	*8:30*
10. Give the first 3 terms of the sequence with the nth term = 2n - 1	*8:15*	20. Describe the bearing of A from B 	*8:25*		
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	