


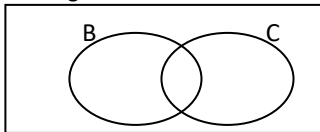
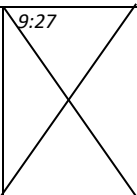


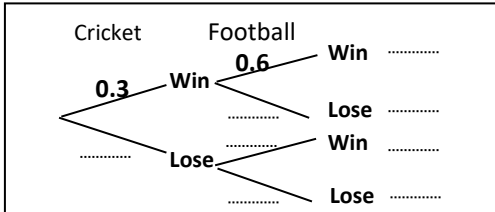
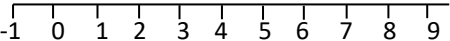
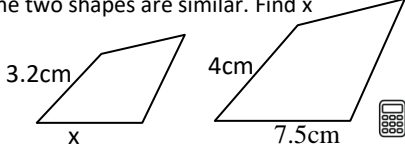
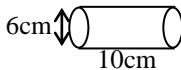
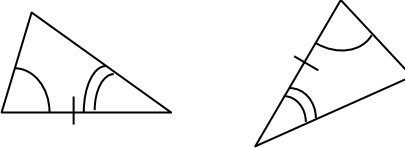

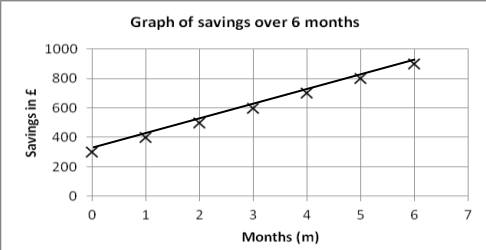
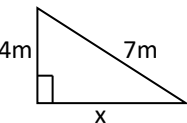

Maths Key Skills

Name:

Date:

Stage 9: Skill Check 2

Class/Group:

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Geometry & Measure, Statistics & Probability									
1. Write 5.3×10^3 as an ordinary number	9:1	11. Work out the balance on £500 over 2 years at 5% compound interest 	9:13	21. Group B take Biology and group C take Chemistry. Shade the Venn diagram for those who take both subjects. 									
2. Write 2.4×10^{-2} as an ordinary number	9:1	12. The water bill had a 40% increase to £63. Find the original bill. 	9:14										
3. 8cm has been rounded to 1sf. Express the limits in the form $a \leq x < b$	9:2	13. 4kg of metal has a volume of 1.25m^3 . What is its density? 	9:15										
4. Solve: $x^2 - 3x - 4 = 0$	9:4	14. The time taken to paint a room is directly proportional to the number of people painting the room. TRUE or FALSE?	9:16	22. The probability a team will win cricket is 0.3, & win football is 0.6. Complete the tree diagram. 	9:28								
5. Solve: $3x - 1 \geq 8$ and show the solution on the number line 	9:5	15. The two shapes are similar. Find x 	9:17										
6. Make 'y' the subject of the equation $3x + 4y = 12$	9:6	16. In multiples of π , work out the perimeter of a semicircle of diameter 7cm	9:18	23. Use the tree diagram to work out the probability that the team will lose both games	9:28								
7. Solve the equation: $\frac{x}{2} - 3 = 1$	9:7	17. Work out the curved surface area of this cylinder in terms of π 	9:20										
8. Write down the equation of a line parallel to $y = 3x + 2$	9:8	18. Give the condition of congruency: 	9:21	24. Construct the perpendicular bisector of the line segment 	9:25								
9. Give the rate of savings 	9:9	19.  To find 'x' choose one calculation: Circle choice $\sqrt{7^2 + 4^2}$ OR $\sqrt{7^2 - 4^2}$	9:22										
10. Evaluate: $5t^2 - 7$ when $t = 4$	9:12	20. <i>If</i> $\sin x = \frac{3}{5}$, find x (nearest $^\circ$) 	9:23	25. A homework survey was conducted by 3 students <table border="1" data-bbox="1420 1086 1980 1225"> <thead> <tr> <th>Students</th> <th>Number of people surveyed</th> </tr> </thead> <tbody> <tr> <td>Alice</td> <td>10</td> </tr> <tr> <td>Ben</td> <td>50</td> </tr> <tr> <td>Carol</td> <td>100</td> </tr> </tbody> </table> Maggie says "Carol's results will be the most accurate" Why? because.....	Students	Number of people surveyed	Alice	10	Ben	50	Carol	100	9:29
Students	Number of people surveyed												
Alice	10												
Ben	50												
Carol	100												
Total (A)		Total (B)		Total (C)									
Test Total (A+B+C)		R (0-9)		Y (10-19)									
				G (20-25)									