

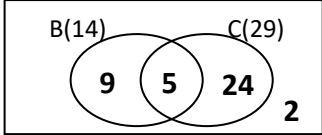

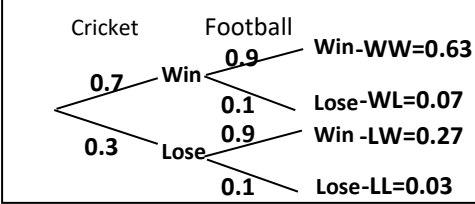
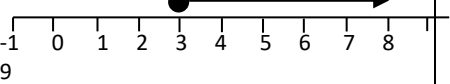
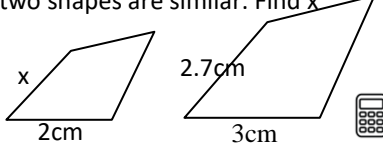
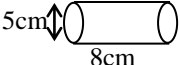
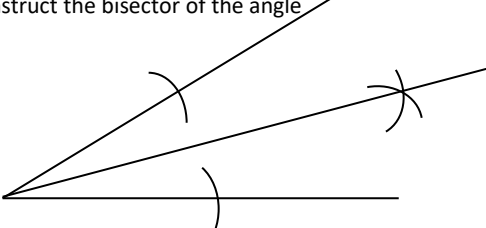
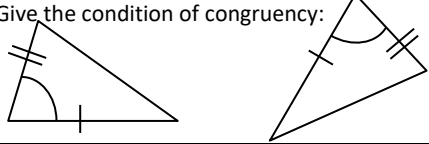
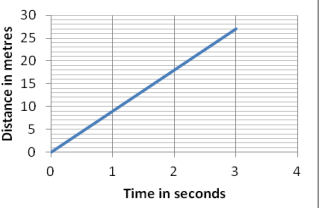
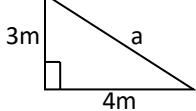

Maths Key Skills

Name:

Date:

Stage 9: Skill Check 1 - Answers

Class/Group:

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Statistics & Probability	
1. Write 38000 in standard form notation	9:1 3.8×10^4	11. Work out the simple interest on £400 over 2 years at 8% interest per annum	9:14 £64	21. Out of 40 students, 14 take Biology and 29 take Chemistry, 2 take neither. Complete the Venn diagram 	9:27
2. Write 0.0045 in standard form notation	9:1 4.5×10^{-3}	12. In a 60% off sale, a jumper is priced at £16.80. Find the original price. 	9:15 £42		
3. 30m has been rounded to 1sf. Express the limits in the form $a \leq x < b$	9:2 $25 \leq x < 35$	13. What is the formula to find density?	9:16 $D=M/V$	22. The probability a team will win cricket is 0.7 & of winning football is 0.9. Complete the tree diagram. 	9:28
4. Factorise: $x^2 + 7x + 6$	9:4 $(x+6)(x+1)$	14. The time taken to dig a hole is indirectly proportional to the number of people doing the digging. TRUE or FALSE?	9:17 TRUE		
5. Solve: $3x - 1 \geq 8$ and show the solution on the number line 	9:5	15. The two shapes are similar. Find x 	9:18 1.8cm	23. Use the tree diagram to work out the probability that the team will lose both games	9:28 0.03
6. Make 'y' the subject of the equation: $2y - 3x = 8$	9:6 $y = \frac{3x+8}{2}$ $y = \frac{3}{2}x + 4$	16. In multiples of π , work out the perimeter of a semicircle of diameter 10cm	9:19 $5\pi+10$		
7. Solve the equation: $\frac{x}{3} + 5 = 6$	9:7 $x=3$	17. Work out the curved surface area of this cylinder in terms of π 	9:21 40π	24. Construct the bisector of the angle 	9:25
8. Write down the equation of a line parallel to $y = 2x - 5$	9:8 $y=2x \pm ?$	18. Give the condition of congruency: 	9:22 SAS		
9 Give the rate of change. 	9:9 9m/s	19.  To find 'a' choose one calculation: $\sqrt{4^2 + 3^2}$ OR $\sqrt{4^2 - 3^2}$	9:23 $\sqrt{4^2 + 3^2}$	25. A coin is tossed 10 times. The result was 8 Heads and 2 Tails. Do you think the coin is biased? Give a reason to support your decision YES or NO or DON'T KNOW - circle your response. Reason Insufficient number of trials to enable a decision. The larger the number of trials the more reliable the outcome.	9:29
10. Evaluate: $a^2 - a$ when $a = -5$	9:12 30	20. If $\tan 32^\circ = \frac{x}{8}$, work out x (1sf) 	9:23 5		
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)		Y (10-19)	
				G (20-25)	