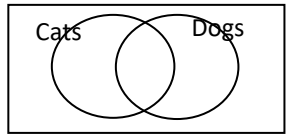
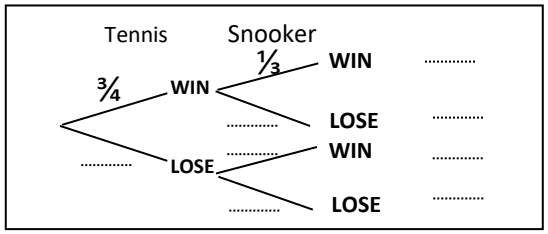
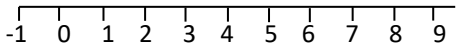
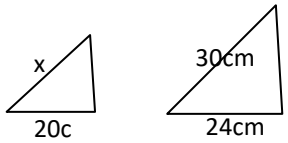
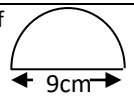
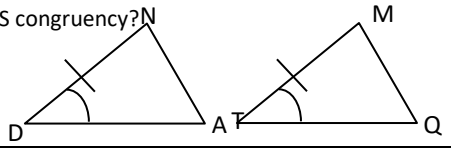
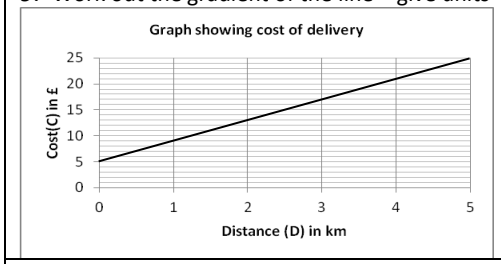
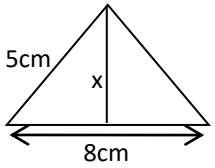
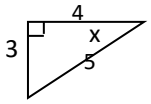
Maths Key Skills **Stage 9: Skill Check 10**

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

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Geometry & Measure, Statistics & Probability	
1. Write 16×10^7 in standard form	*9:1*	11. Work out the **balance** on £60 over 2 years at 10% compound interest	*9:13*	21. **37 pupils** in a class 23 have a dog 18 have a cat 7 have neither Complete the Venn diagram 	*9:27*
2. Write 156×10^{-7} in standard form	*9:1*	12. A flat was reduced by 20% to £52 000 Find its original price.	*9:14*		
3. 4.8cm has been rounded to nearest mm Express the limits in the form $a \leq x < b$	*9:2* **≤ x <**	13. Density 0.7g/cm³ Mass 4.2g What is the Volume?	*9:15*		
4. Solve: $x^2 + 4x + 4 = 0$	*9:4*	14. Is the graph in Q9 showing DIRECT PROPORTION?	*9:16*	22. Sam plays a game of tennis & a game of snooker. 	*9:28*
5. If **4x – 9 < 7**, show the solution for **x** on the number line 	*9:5*	15. The two shapes are similar. Find x 	*9:17*		
6. Make 'a' the subject of the equation $p = \frac{a}{3} + b$	*9:6*	16. Work out the PERIMETER of the semi-circle (to 3sf) 	*9:18*	23. From the tree diagram, work out the probability of losing both games	*9:28*
7. Solve the equation: $\frac{y-1}{2} + \frac{y+2}{5} = 2$	*9:7*	17. Work out the **TOTAL** surface area of a cylinder with r = 3m & h = 8m (3sf)	*9:20*	24. Construct the perpendicular from the point to the line. 	*9:26*
8. Write down the equation of a line parallel to $y - 3x = 8$	*9:8*	18. What additional information is needed for AAS congruency? 	*9:21*		
9. Work out the gradient of the line – give units 	*9:9*	19.  Work out length 'x' (to 1dp)	*9:22*	25. At a conference, a survey is done on the first 10 people to arrive. Comment on this method of conducting a survey.	*9:29*
10. Evaluate $P = Q^2 - 2Q$ when Q = -3	*9:12*	20. Complete the sentence cos x = ___ 	*9:23*		
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	