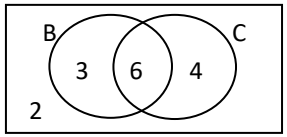
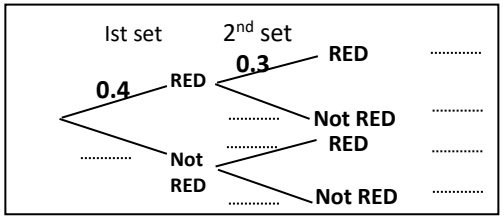
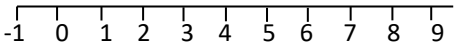
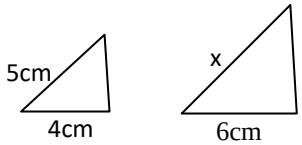
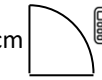
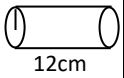
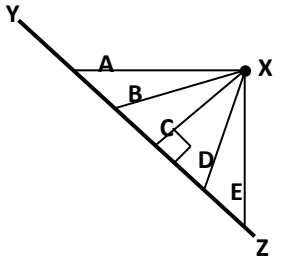
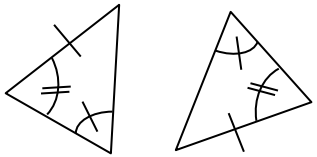
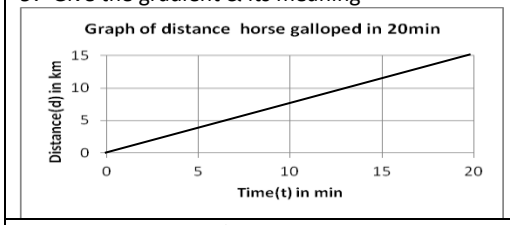
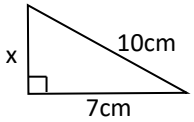
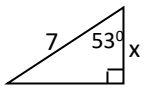
Maths Key Skills **Stage 9: Skill Check 7**

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

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Geometry & Measure, Statistics & Probability	
1. Write **40 000** in standard form	*9:1*	11. Work out the **balance** on £600 over 2 years at 4% simple interest	*9:13*	21. Work out the p(neither B nor C) 	*9:27*
2. Write **0.00007** in standard form	*9:1*	12. A bill £198 includes a 10% service charge. Find the bill prior to the charge.	*9:14*		
3. 200 has been rounded to nearest 100 Express the limits in the form a ≤ x < b	*9:2* ≤ x <	13. Mass=4800kg Density = 800kg/m³ What is the Volume?	*9:15*		
4. Factorise: $x^2 + 6x + 5$	*9:4*	14. Are x & y in DIRECT or INVERSE proportion?	*9:16*	22. I meet 2 sets of traffic lights. Complete the tree diagram. 	*9:28*
5. If **3 ≤ x ≤ 8**, show the solution for **x** on the number line 	*9:5*	15. The two shapes are similar. Find x 	*9:17*		
6. Make 'p' the subject of the equation $q = \frac{p}{r} + s$	*9:6*	16. Work out the area of the ¼ circle (to 3sf) 	*9:18*	23. Use the tree diagram to work out the probability of that I meet RED only on the second set.	*9:28*
7. Solve the equation: $\frac{y}{2} + \frac{y}{4} = 1$	*9:7*	17. Work out the curved surface area of this cylinder in terms of π 	*9:20*	24. Name the shortest distance from X to the line YZ 	*9:26*
8. Write down the equation of a line parallel to 2x + y = 7	*9:8*	18. Give the condition of congruency: 	*9:21*		
9. Give the gradient & its meaning 	*9:9*	19.  Work out length 'x' (to 1dp)	*9:22*	25. To do a survey on Year 9, the teacher took the lists and chose every 5th person. Do you think this was a good method to get a sample? Give a reason. **YES or NO - circle your response.** **Reason**	*9:29*
10. Evaluate $T = 2x^3$ when x = 3	*9:12*	20. Complete the sentence $\ldots 53 = \frac{x}{7}$ 	*9:23*		
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)		Y (10-19)	G (20-25)