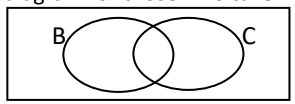
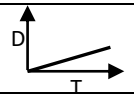
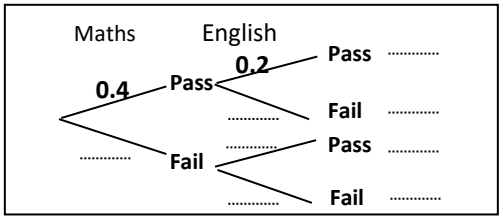
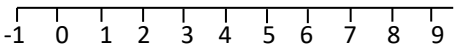
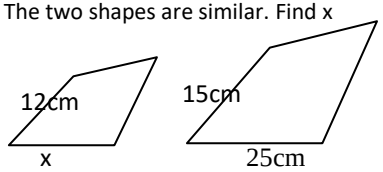
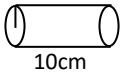
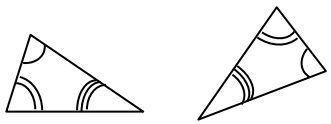
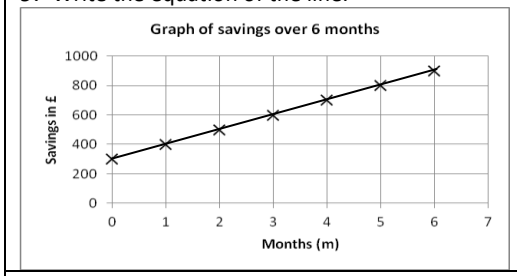
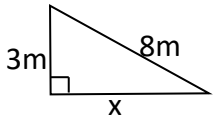
Maths Key Skills **Stage 9: Skill Check 4**

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

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Geometry & Measure, Statistics & Probability	
1. Write **1.8 x 10²** as an ordinary number	*9:1*	11. Work out the **balance** on £400 over 3 years at 3% compound interest	*9:13*	21. Group B take Biology and group C take Chemistry. Shade the Venn diagram for those who take neither. 	*9:27*
2. Write **3 x 10⁻³** as an ordinary number	*9:1*	12. Jenny used 368g of flour which was 15% more than suggested. Find original	*9:14*		
3. 4.7cm has been rounded to 1dp Express the limits in the form a ≤ x < b	*9:2* ≤ x <	13. Mass= 5.6g. Density = 1.4g/cm³ What is the Volume?	*9:15*		
4. Solve: $x^2 - 3x - 18 = 0$	*9:4*	14. Is distance(D) in direct proportion to time(T) in this graph? 	*9:16*	22. The probability of passing Maths is 0.4, & English is 0.2. Complete the tree diagram. 	*9:28*
5. If 2x+3< 11, 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 $a(p - q) = r$	*9:6*	16. In multiples of π, work out the area of a semicircle of radius 6cm	*9:18*	23. Use the tree diagram to work out the probability of passing both of the subjects	*9:28*
7. Solve the equation: $\frac{x-2}{5} = 1$	*9:7*	17. Work out the curved surface area of this cylinder in terms of π 	*9:20*	24. Construct the perpendicular line to the line from the point •	*9:29*
8. Write down the equation of a line parallel to $y = 3 - x$	*9:8*	18. Give the condition of congruency: 	*9:21*		
9. Write the equation of the line. 	*9:9*	19.  To find 'x' choose one calculation: Circle choice $\sqrt{8^2 + 3^2}$ OR $\sqrt{8^2 - 3^2}$	*9:22*	25. Give an example of how you would take a <u>random sample</u> of people using the local leisure centre.	*9:29*
10. Evaluate $t^2 - 4t$ if t = -3	*9:12*	20. If $\tan x = \frac{4}{3}$, find x to 3sf	*9:23*		
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	