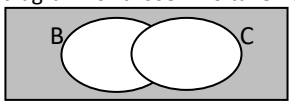
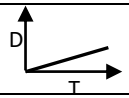
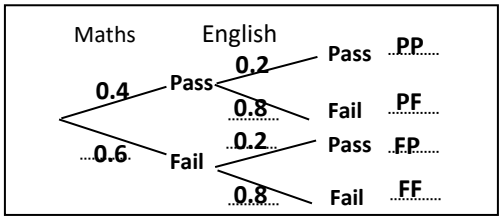
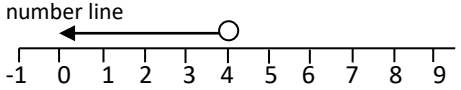
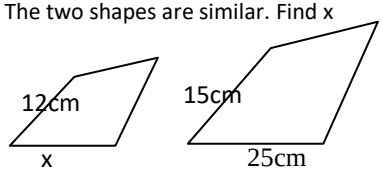
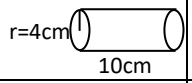
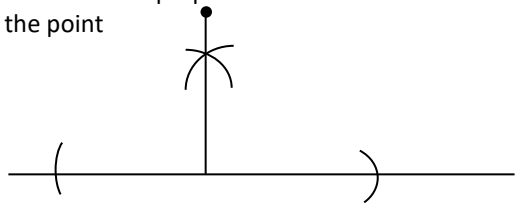
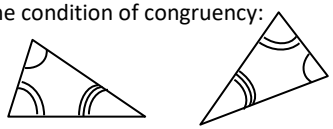
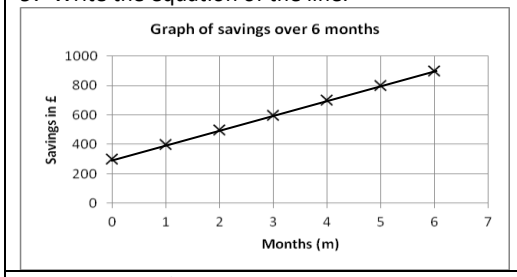
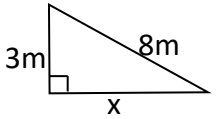
Maths Key Skills **Stage 9: Skill Check 4 - Answers**

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

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Geometry & Measure, Statistics & Probability	
1. Write **1.8x10²** as an ordinary number	*9:1* **180**	11. Work out the **balance** on £400 over 3 years at 3% compound interest	*9:13* **£437.09**	21. Group B take Biology and group C take Chemistry. Shade the Venn diagram for those who take neither. 	*9:27*
2. Write **3x10⁻³** as an ordinary number	*9:1* **0.003**	12. Jenny used 368g of flour which was 15% more than suggested. Find original	*9:14* **320g**		
3. 4.7cm has been rounded to 1dp Express the limits in the form a < x ≤ b	*9:2* **4.65≤x<4.75**	13. Mass= 5.6g. Density = 1.4g/cm³ What is the Volume?	*9:15* **4cm³**		
4. Solve: $x^2 - 3x - 18 = 0$	*9:4* **X=6or-3**	14. Is distance(D) in direct proportion to time(T) in this graph? 	*9:16* **YES**	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* **Sf= 15÷12 =1.25 X=25÷1.25 =20cm**		
6. Make 'p' the subject of the equation a(p – q) = r	*9:6* $p = \frac{r + aq}{a}$	16. In multiples of π, work out the area of a semicircle of radius 6cm	*9:18* **18π cm²**	23. Use the tree diagram to work out the probability of passing both of the subjects	*9:28* **0.08**
7. Solve the equation: $\frac{x-2}{5} = 1$	*9:7* **x=7**	17. Work out the curved surface area of this cylinder in terms of π 	*9:20* **80π**	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* **y= ±c - x**	18. Give the condition of congruency: 	*9:21* **None**		
9. Write the equation of the line. 	*9:9* **S=300 + 100m**	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 random sample of people using the local leisure centre. Example: Survey every 10th person going in or coming out	*9:29*
10. Evaluate $t^2 - 4t$ and t = -3	*9:12* **9+12 =21**	20. If $\tan x = \frac{4}{3}$, find x to 3sf	*9:23* **53.1⁰**		
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	