

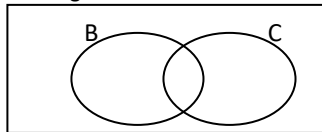


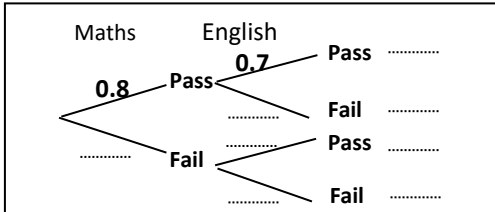
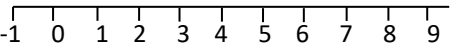
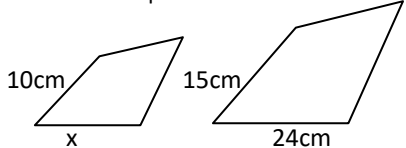

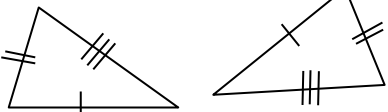

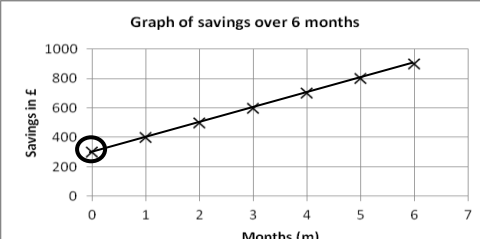
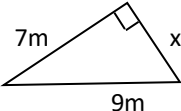

Maths Key Skills

Name:

Date:

Stage 9: Skill Check 3

Class/Group:

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Geometry & Measure, Statistics & Probability										
1. Write 2450 in standard form	9:1	11. Work out the simple interest on £600 over 2 years at 4% interest	9:13	21. Group B take Biology and group C take Chemistry. Shade the Venn diagram for those who take only Biology. 	9:27									
2. Write 0.0002 in standard form	9:1	12. A car is reduced by 30% to £8400. Find the original cost. 	9:14											
3. 2.4cm has been rounded to 1dp. Express the limits in the form $a \leq x < b$	9:2 $\leq x <$	13. Volume = $5m^3$. Density = $7130kg/m^3$. What is the mass? 	9:15											
4. Factorise: $x^2 - 8x + 15$	9:4	14. A man earns £20 per hour. His hours and pay are in direct proportion. TRUE or FALSE?	9:16	22. The probability of passing Maths is 0.8, & English is 0.7. Complete the tree diagram. 	9:28									
5. If $-1 < x < 4$ and 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 $2(a-5)=b$	9:6	16. In multiples of π , work out the area of a semicircle of diameter 8cm	9:18	23. Use the tree diagram to work out the probability of passing only one of the subjects	9:28									
7. Solve the equation: $\frac{2x}{3} - 2 = 4$	9:7	17. Work out the curved surface area of this cylinder in terms of π . 	9:20											
8. Write down the equation of a line parallel to $y = 5 - 2x$	9:8	18. Give the condition of congruency: 	9:21	24. Construct the perpendicular to the point on the line 	9:26									
9. What is your interpretation of circled point? 	9:9	19.  To find 'x' choose one calculation: Circle choice $\sqrt{7^2 + 9^2}$ OR $\sqrt{9^2 - 7^2}$	9:22			25. A survey of 40 is to be done at a Youth Club to find out the activities to include in the programme. The total number of youth members is: <table border="1" data-bbox="1420 1150 1989 1254"> <thead> <tr> <th>Ages</th> <th>Boys</th> <th>Girls</th> </tr> </thead> <tbody> <tr> <td>11-14</td> <td>42</td> <td>15</td> </tr> <tr> <td>15-18</td> <td>16</td> <td>37</td> </tr> </tbody> </table> It was decided to ask 10 from each category. Do you think this is a fair approach? Give a reason. YES or NO – circle your answer Reason.....	Ages	Boys	Girls	11-14	42	15	15-18	16
Ages	Boys	Girls												
11-14	42	15												
15-18	16	37												
10. Evaluate A when $A = p^2 - 4p$ and $p = -2$	9:12	20. If $\cos 54 = \frac{x}{5}$, find x (correct to 1dp) 	9:23											
Total (A)		Total (B)		Total (C)										