


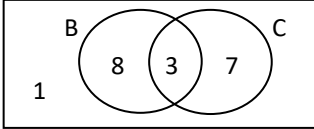
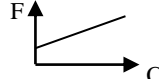
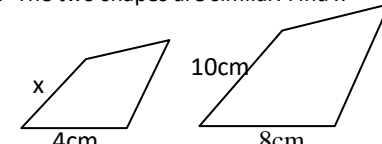
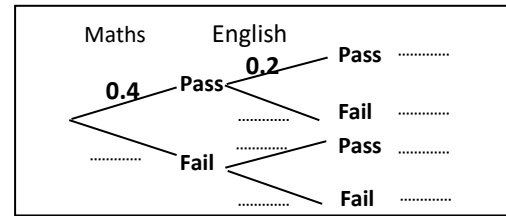
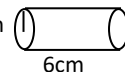
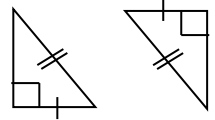
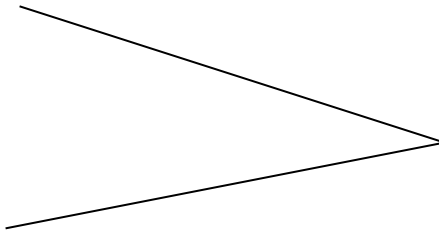
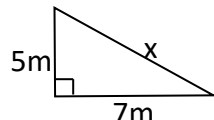

Maths Key Skills

Name:

Date:

Stage 9: Skill Check 5

Class/Group:

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Geometry & Measure, Statistics & Probability	
1. Write 93 000 000 in standard form	9:1	11. Work out the balance on £1000 over 3 years at 8% simple interest	9:13	21. Work out the p(B)	9:27
2. Write 0.0072 in standard form	9:1	12. A coat cost £84 with 20% off. Find original cost. 	9:14		
3. 60 has been rounded to nearest 10. Express the limits in the form $a \leq x < b$	9:2	13. Mass= 45g. Volume = 5cm ³ . What is the density?	9:15		
4. Factorise: $x^2 + 6x + 8$	9:4	14. Is this Celsius to Fahrenheit conversion graph in direct proportion? 	9:16	22. The probability of passing Maths is 0.4, & English is 0.2. Complete the tree diagram.	9:28
5. If $0 < x \leq 6$, show the solution for x on the number line	9:5	15. The two shapes are similar. Find x. 	9:17		
6. Make 's' the subject of the equation $v^2 = u^2 + 2as$	9:6	16. In multiples of π , work out the perimeter of a quarter-circle of diameter 8cm	9:18		
7. Solve the equation: $\frac{2x+1}{3} = 7$	9:7	17. Work out the curved surface area of this cylinder in terms of π . $r=3\text{cm}$ 	9:20	23. Use the tree diagram to work out the probability of failing both of the subjects	9:28
8. Write down the equation of a line parallel to $x + y = 5$	9:8	18. Give the condition of congruency: 	9:21	24. Construct the bisector of the angle. 	9:25
9. Give the rate of change	9:9	19.  To find 'x' choose one calculation: Circle choice $\sqrt{7^2 + 5^2}$ OR $\sqrt{7^2 - 5^2}$	9:22	25. A shop checked how many boxed games were sold in December and used this as a basis for the projected sales for the year. Do you think that this is a good approach? Give a reason for your decision. YES or NO - circle your response. Reason	9:29
10. Evaluate $V=5p^3$ when $p = 2$	9:12	20. If $\sin 38 = \frac{5}{x}$ find x(to 1dp) 	9:23		
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)		G (20-25)