Maths Key Skills

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

A: Number & Algebra		B: Proportion, Geometry & Measure		C: Geometry & Measure, Statistics & Probability	
1. Write **4.7 x 10⁵** as an ordinary number	9:1 **470000**	11. Work out the **balance** on £500 over 3 years at 6% simple interest	9:13 **£590**	21. 28 **people in a room were asked about** **newspapers:** 3 bought am & pm paper 15 bought am paper 8 bought pm paper Complete the Venn diagram	9:27 **28**
2. Write **5.23 x 10⁻¹** as an ordinary number	9:1 **0.523**	12. A house has increased by 30% to £106600. What was it worth before?	9:14 **£82000**		
3. **470** has been rounded to 2sf Express the limits in the form a ≤ x < b	9:2 **465≤x<475**	13. Volume = 3m³ Density-190kg/m³ What is the Mass?	9:15 **570kg**		
4. Factorise: $x^2 + 3x - 10$	9:4 **(x+5)(x-2)**	14. Is the graph in Q9 showing direct or inverse proportion?	9:16 **Direct**	22. A dice is rolled and then a coin is tossed. Complete:	9:28
5. If **5x > 4x + 5**, show the solution for **x** on the number line	9:5	15. The two shapes are similar. Find x 5cm 3.5cm 12cm x	9:17 **Sf=12÷5 =2.4 X=3.5x2.4 =8.4cm**		
6. Make 'w' the subject of the equation P=3w+20 ÷100	9:6 **w=100P-20 ÷3**	16. Work out the AREA of a quarter-circle with a radius of 8cm(2sf)	9:18 **Πx8²÷4 =50cm²**	23. From the Tree diagram work out the probability of getting a SIX and a TAIL	9:28 $\frac{1}{12}$
7. Solve the equation: $\frac{2y-3}{6} + \frac{y+2}{3} = \frac{5}{2}$	9:7 **4y=14 y = 3.5**	17. Work out the **curved** surface area of a cylinder with r=7m & h= 12m (3sf)	9:20 **2xπx7x12 =528m²**	24. Construct the perpendicular line to the point on the line.	9:26
8. **Is** x + y = 6 parallel to 2x + 2y = 10?	9:8 **YES**	18. If these are congruence, state the reason 7cm 68⁰ 48⁰ 64⁰ 7cm 64⁰ 48⁰ 68⁰	9:21 **ASA**		
9. Give the gradient & its meaning	9:9 **£9 per cartridge**	19. x 2.4m 5m Work out length 'x' (to 1dp)	9:22 **√(5²+2.4²) =5.5m**	25. The teacher wants to conduct a survey with 50 students about school meals. She gives every student in the school a number and uses the computer to generate numbers to identify the sample for the survey. This is a good method; explain why.	9:29
				It is a good method to identify the sample for the survey because **it is random and everyone has an equal chance**	
10. Evaluate **b³ + b** when **b = -3**	9:12 **-27-3=-30**	20. If tan 27⁰ = x , work out x (2sf) 7	9:23 **3.6**		
Total (A)		Total (B)		Total (C)	
Test Total (A+B+C)		R (0-9)	Y (10-19)	G (20-25)	