**Maths Form 2**

1. Given a:b = 2:3 and b:c = 4:8 find a:b:c. (2 marks)
2. Using mathematical tables to find;

0.09123 (2 marks)

1. Solve for x in the equation.

27x x 3(2x-2) = 9 (x +2)  ( 3 marks )

1. Simplify:  (4 marks)
2. Use logarithms to 4 decimal places to evaluate: (4 marks)

 

1. Use squares, square roots and reciprocals tables only to evaluate;

$\frac{3}{\sqrt{42.15}}+ \frac{4}{\left(3.152\right)^{2}}$ (4 marks)

1. Find the equation of a line through point (5, -1) and perpendicular to line 4x + 2y – 3 = 0. (4 marks)
2. Four towns **P, Q, R,** and S are such that the town **Q** is 120 Km due to East of town **P**. Town **R** is 160km due north of town **Q**, town **S** is on a bearing of 3300 from **Q** and on a bearing of 3000 from **R**.
3. Show the relative position of towns **P**, **Q**, **R**, and **S**.

Take the scale of 1cm to rep. 50km. (5mks)

1. Use the drawing to determine
2. The distance **SP** in Km (2mks)
3. The bearing of **S** from **P** (1mk)