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KISIRIRI SECONDARY SCHOOL

TERM 2, 2014 ENTRY CAT

FORM TWO MATHEMATICS

1. Find the equation of the line which passes through the points P (3,7) and Q (6,1) and express it in the form;
2. **Y= mx + c** (3mks)
3. ** + =1**  (2mks)
4. The equation of line b is -**3/5x + 3y = 6**. Find the:

(a) Gradient of the line (2mks)

(b) The equation of a line that passes through point **(1, 2)** and it is perpendicular to line b. (3mks)

1. ABCD is a rhombus. Three of its vertices are **A (1, 2), B (4, 6)** and **C (4, 11)**.
2. Find the equations of its diagonals (3mks)
3. Find the coordinate of vertex D. (2mks)
4. Use mathematical table to evaluate **182 × 3914** (4mks)

**153 × 564**

1. Solve **45x ÷ (23x)2  = 256 (**4mks)
2. The volume of a sphere is given by **πr3**. Find the radius of the sphere whose volume is **1047.816** cm3. Take π to be  (4mks)
3. Use the reciprocal table to evaluate ** + **  (3mks)