FORM 4 MATHEMATICS LUNCH HOUR GROUP DISCUSSION. 22/03/2018

1. Draw a line AB=5cm .Construct on one side of line AB the locus of a point P such that angle APB=55⁰. (4mks)

2. Akinyi bought maize and beans from a wholesaler. She then mixed the maize and beans in the ratio 4:3. She bought the maize at Kshs. 21 per kg and beans at Kshs. 42 per kg. if she was to make a profit of 30%, what should be the selling price of 1kg of the mixture.

    (3mks)

3. Express tan60⁰ in surd form. Hence simplify the expression below by rationalizing the denominator: $\dfrac{2}{1-tan60^0}$ (3mks)

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1. A flower garden is in the form of a trapezium as shown below. Find the area of the garden in hectares. (4mks)
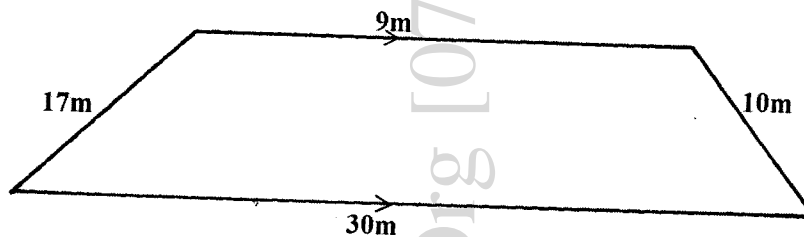
2. Calculate the inter-quartile range of 3,4,1,2,3,6,8,5,7,9. (3mks)

3. Draw the locus of points P(x, y) such that:

    i. $y + 2 > 0$
    ii. $y \le 2x + 6$
    iii. $y + x \le 6$

    (4mks)

FORM 2 MATHEMATICS LUNCH HOUR GROUP DISCUSSION. 22/03/2018

1. A map is drawn to a scale of 1:200,000. Find the area in km² represented by a rectangle measuring 5.5cm and 4.5cm. (3mks)

2. 10 men working 3 hours a day can complete a piece of work in 5 days. How many more men will he require to finish the same work in 2 days working 5.Hours per day. (3mks)

3. Solve the following equation: $3^{4x} \div 3^{-7} = 3^{15}$ (3mks)