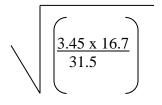
MATHEMATICS FORM 2 **TIME: 1 HOUR 15 MINS**

1. Use tables to evaluate.



2. Solve for x in each of the following equations. (a) $3^{(2x-5)} = 27$

(b)
$$3^{4x} \div 3^{-7}=3^{15}$$

3. Use reciprocals tables to evaluate

4. A metallic cuboid measuring 16cm by 8cm by 4 cm was melted . The material was then used to make a cube. What was the length of the cube? (3mks)

(3mks)

(3mks)

(3mks)

(3mks)



(3mks

6. Find the equation of the line through the points A (2, 5) and B(3, 11) (3mks)

7. Determine the equation of the line perpendicular to the line whose equation is y=-5x+3 and passes through the point (3, 2). (3mks)

8. A(-5, -2), B(-2, -5) and C(-12, -2) are vertices of a triangle. Find the image of the triangle when it is reflected in :
(a) The line y=-x

(b) The line y=x

(4mks)

9. Find the area in hectares of a coffee filed whose measurements are entered in a filed book as shown below. Take xy=200m as the baseline. (8mks)

To R 80 To S 160	Y 180 40 to Q 140 100 40 100 to P X	

10. Use the reciprocal tables and square root to evaluate.

0.1 + 0.4980.0351

11. Two mean each working for 8 hours a day. Can cultivate an acre of land in 4 days. How long would 6 men each working in 4 hours a day take to cultivate 4 creas? (3mks)

12. The sum of interior angles of a regular polygon is 1080°. Find the size of each exterior angle. (3mks)

(4mks)