**NAME:……………………………………………………………….ADM:……………CLASS:…………….**

**MATHEMATICS**

**FORM 2**

**MID TERM 1 EXAM, 2023**

**TIME: 1 HOUR 15 MINS**

1. Use tables to evaluate. (3mks)

3.45 x 16.7

31.5

1. Solve for x in each of the following equations. (3mks)
2. 3(2x-5) = 27
3. 34x ÷ 3 -7=315  (3mks)
4. Use reciprocals tables to evaluate (3mks)
5. 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)
6. Simplify

27x3y9 (3mks

X6y3

1. Find the equation of the line through the points A (2, 5) and B(3, 11 ) (3mks)
2. Determine the equation of the line perpendicular to the line whose equation is y=-5x+3 and passes through the point (3, 2). (3mks)
3. 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 :
4. The line y=-x (4mks)
5. The line y= x (4mks)
6. 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)

Y

180 40 to Q

To R 80 140

To S 160 100

40 100 to P

X

1. Use the reciprocal tables and square root to evaluate. (4mks)

0.1 + 0.498

0.0351

1. 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)
2. The sum of interior angles of a regular polygon is 1080o. Find the size of each exterior angle. (3mks)