NAME…………………………………ADM NO…………DATE…………………

**KISIRIRI SECONDARY SCHOOL**

**P.O. BOX 93-20500 TEL 0721-451-691**

**CAT ONE OF 3ND TERM 2013**

**FORM ONE**

**MATHEMATICS**

**ONE HOUR**

1. Evaluate (-5 + -3) x (-2 + 8) ÷ 4 ( 2mks)

2. Write the following expresstion as a single fraction ( 3mks)

X + 2y - 2x – y

4 5

3. Four business partners Munyao, Kinura Mulisis and Mango made a profit of shs, 5,600 in one month. They set a side 25% profit for running the business. Yhey then shared the rest in the ratio 2:3:4:6 respectively. How much did Mango get? ( 3mks)

4. A farmer has three container of capacity 12L , 15L and 21L. Calculate the capacity

a) the smallest container which can be filled by each one of them on an exact

number of times ( 2mks)

b) The largest container which can fill each one of the on an exact number of

times. ( 2mks)

5. A rectangular slab of glass measure 5cm by 3cm by 14cm and has a mass of 450g. Calculate the density of the glass in kg/m3  (3mks)

6. The inside circumference of a circular sports track is 440m long. If the sport track is 10m wide. Find the cost of leveling the sports track at sh. 3.50 per square metre. ( 4mks)

7. construct a trapezioum where CD is parallel to BE. Given that CD =4cm BD =5cm and AC = 12cm

Hence Calculate the ares of trapezium ABCDE ( 6mks)

8. Express 0.as a fraction ( 3mks)

9. Wanjala drives from twon A to B starting 2330 hours and he drives non stop at 66km/hr to reach town B at 0050 hours. Find how far B is from A ( 3mks)

10. Nasimiyu and Atieno bought the same type of pens and exervice books from the same shop. Nasimiyi bought 2 pens and 3 exercise books for kshs. 78 and Atieno bought 3 p3ns and 4 exercise books for shs 108. Cal;culate the cost of each item. ( 3mks)

11. A sector of a circle of radiun 3.5cm has an angle of 1200 subtended at the centre. Find the perimeter of the sector. (4mks)

12. a) Express 7056 as a product of its prime facgtors. ( 2mks)

b) Hence evalaut 7056 (2mks)

13. on the grid provided below, draw the plane figure whose vertices are A(-4,-6), B(6,-6), C(0,8) and D(10,8).

Hence calculate the area of the figure. (6mks)

