**NAME: ……………………………………………ADM.NO.…………….STREAM…………**

**MATHEMATICS FORM ONE**

**END TERM EXAM – TERM TWO 2015.**

* **Answer all questions in the spaces provided.**

**SECTION A - (50 MARKS)**

1. Evaluate:

 (2 marks)

1. Solve the simultaneous equations using an appropriate method.

 (2 marks)

 (2 marks)

1. The price of a commodity was increased in the ratio 5:4. After one month the price of the same commodity was reduced in the ratio 1:8 to attract more customers. If the new price was Sh.35, calculate the price of the commodity before the increase.

 (3 marks)

1. Without using tables solve:- (3 marks)
2. A shopkeeper sells two types of pangas; type X and type Y. Twelve X pangas and type Y pangas cost Sh.1,260, while nine type X pangas and 15 type Y pangas cost Sh.1,620. Mugala bought 18 type Y pangas. How much did he pay for them?

 (4 marks)

1. Three bells ring at interval of 9 minutes, 15 minutes and 21 minutes. The bells will next ring together at 11.00 p.m. Find the time the bells had last rang together.

 (3 marks)

1. Amina withdrew some money from a bank. He spent of the money to pay Mutua’s school fees and to pay for food. If he remained with Ksh.12,330, calculate the amount of money he paid for Tatu’s school fees. (4 marks)
2. An arc of a circle subtends an angle 60ᵒ at the centre of the circle. Find the length of the arc if the radius of the circle is 42 cm ( (3 marks)
3. Find the area of the rectangle given below. The dimensions are in l centimeters.

(1 mark)

 (p + q)

 (r + s)

1. Convert into decimal.
2. (1 mark)
3. (1 mark)
4. (1 mark)
5. Evaluate:-
6. (1 mark)
7. (1 mark)
8. If the area of a square is 38.44 cm2, calculate its perimeter. (2 marks)
9. Find square root of (using tables)
10. 1.86 (1 mark)
11. 359 (1 mark)
12. If Calculate:- (3 marks)

 + + giving your answer correct 3 figures.

1. Simplify:-

 (1 mark)

 (1 mark)

1. Below is a travel time table for a minibus:-

|  |  |  |
| --- | --- | --- |
| Town | Arrival Time | Departure Time |
| X |  | 0830 |
| Y | 115 | 1130 |
| Z | 1410 |  |

1. How long does the mini bus take to travel from town X to town Y? (2 marks)
2. How long does the minibus take at town Y? (2 marks)
3. What time does it take to travel from town Y to town Z? (2 marks)
4. Find if:-
5. and (2 marks)
6. (2 marks)
7. The length of each side of a square is increased by 15%. Calculate the percentage increase in its area. (3 marks)
8. Iffind ratio (2 marks)

**SECTION B:**

1. Anisa and Fatuma formed a trading partnership. In the first month Kirui contributed of his salary towards the cost of the company. Karoki’s contribution was of his monthly salary, giving a total of Sh.980. Their respective contributions the following month were and of their salaries. If the total contribution for the second month was Sh.1550, what were their monthly salaries? (5 marks)
2. A right angled triangle prism has length 3m, breath 2m and height 2.5 m. If the mass is 3.4 kg. Find its density. (3 marks)
3. Find the area:- (2 marks)

 10 m

 5 m

 12 m

1. Solve and represent on a number line (1 mark)
2. A piece of wire 200 cm long is bent to form a rectangular shape. One side of the rectangle is 4 cm longer than the other. Find the dimensions of the rectangle. (3 marks)