NAME: ………………………………………….   ADM NO: ……………………………….

SIGNATURE: …………………………………   DATE : …………………………………….

OLMARIKO SECONDARY SCHOOL
TERM 2, 2016 END TERM .EXAMS
FORM ONE MATHEMATICS

2HOURS 30 MINUTES

Answer All Questions In This Paper On The Spaces Provided.
Show All Your Working, Logically Arranged.
Scientific Calculators Must Not Be Used In This Examination
NB Marks are awarded according to the workings

1.a)State the place value and total value of the underlined digit in **4 7 $\underline{3}$ 6 4 5**   (2mk)

 b)   Write the number in (a) above in words   (2mks)

2. a)   Evaluate **¾ + 1$^5/_7$ ÷ $^4/_7$ of 2 $^1/_3$**   (4mks)

,..   **(1 $^3/_7$ − $^5/_8$) x $^2/_3$**

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

3. Find H.C.F and L.C.M of 5148 and 6084.   (2mks)

4.Use the substitution method to solve for x and y in the simultaneous equations below.(4mks)

     4x - 3y = 1
     X – 4 = 2y

5.The diagram below represents a circular flower bed surrounded by a path of uniform width given that R = 14m and r = 12.6m, Calculate to the nearest whole number the area of the path

      Take   =   22/7   (4mks)

6. Solve the equation.
(3mks)

$$\frac{x+1}{2} \quad \frac{2x+1}{3} = 9$$

7.   The figure below show s a right angled triangular prism of uniform cross- section AF = 6cm, AB = BC = 12cm and CE = 8cm. Find the surface area of the prism.
(4mks)

8.   Use the mathematical tables to find:
        (i) 86.46^2 (2 mark)

9. Ancee paid rent which was 1/10 of his net salary. He used ½ of the remaining amount to make a down payment for a plot. He gave his mother Kshs. 2,500 and did shopping worth Kshs. 7,500 for himself. He saved the remainder which was Ksh. 12,500. How much was the down payment that she made.   (4mks)

10. The table below shows exchange rates between the kenyan shiling and the JapaneseYen. A Japanese tourist Mr. Chung exchanged 1,000,000 Yen into Kenyan shillings. At the end of his holiday he exchanged a quarter of the Kenyan shillings remaining back to the Japanese Yen. How many Japanese yen did he get? (3mks)

	Buying	Sklling
Japanese Yen	0.63	0.65

11. Without using logarithm tables or a calculator, evaluate, giving the answer in decimal form. (3mks)

$$\frac{0.015 + 0.\ 45\ (1.5}{4.9\ x\ O.2 + 0.07}$$

12. Express 0.7°   as a fraction   (3mks)

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

13. Four business partners Sambutu, Chepkulei, Ismael and Boss 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 Sambutu get?   (3mks)

14.Ex[press 10.48 as a mixed number   (3mks)

15. Identify the n umbers which are divisible by both 2 and 3 from the following list. 390, 441, 5210, 6732 and 7544 by giving reasons.   (3mks)

16. On a certain day a student spend ¼ of the time reading and 1/12 of the time eating. He spend ½ of the remaining time slepping. What fraction of the day did he spend sleeping.

(3mks)

17. Kiptoyot leaves behind 50 hectares of land and sh. 120,000 savings in his will. The land was sold at sh. 80,000 per hectare. If his wife gets sh. 520,000 and the rest is divided equally among his four sons and two daughters, how much money does each child get?   (4mks)

18. A bus left Nairobi on Thursday evening and traveled to Dar-es-salam according to the travel time table below and arrived there on Saturday morning.

Nairobi	Dep 2015 h
Namanga	Arr: 2325h
	dep: 0310h
Arusha	Arr: 0640h
	Dep: 0820h
Dodoma	Arr: 2100h
	Dep: 2255h
Dar – es – Salam	Arr: 1015h

Determine the total

i) Traveling time for the whole journey   (3mks)

ii) Stoppage time in all stations   (3mks)

iii) Time taken for the whole journey   (3mks)

⬜⬜ Wishing you all the best ⬜⬜

Mr Mutai D