

GATITU SECONDARY SCHOOL P O BOX 327- 0130 GATUNDU.

FORM 2 MATHEMATICS TUNE-UP EXAM TERM 3 2015.

NAME-----CLASS-----

INSTRUCTIONS

ANSWER all the questions on the spaces provided below each question

1 Evaluate

$$\frac{3}{4} + \frac{1}{5} \div \frac{1}{2} \text{ of } \frac{1}{3}$$
$$\frac{1}{2} \text{ Of } \left\{ \frac{4}{5} - \frac{3}{4} + \frac{1}{2} \right\}$$

(4mks)

2 Solve the following simultaneous equations

(4mks)

$$3x + 4y = 18$$
$$2x - y = 1$$

3 Twenty five machines working at a rate of 9 hours per day can complete a job in 16 days. Contractor intends to complete the job in 10 days using similar machines working at a rate of 12 hours per day. Find the number of machines the contractor requires to complete the job. (4mks)

4 Express  $0.\overline{27}$  as a fraction

(3mks)

5 Three bells ring at intervals 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 rang together.

(4mks)

6 The table below shows the amount of money charged for hiring a car for a given distance.

Distance covered (km)	10	20	30	40	50
Charges (ksh)	75	100	125	150	175

(a) Draw a graph of the charges against the distance covered.

(3mks)

(b) Use your graph to find the standing charge.

(1mk)

(ii) How much money is charged for a distance of : (1mk each)

28 km

33 km

42 km

(iii) The distance covered if the following amounts are charged if; (1 mk each)

Sh 131

Sh 140

Sh 190