GATITU SECONDARY SCHOOL P O BOX 327 01030 GATUNDU

MATHEMATICS FORM ONE TERM TWO

TIME 2HRS	×		
NAME		ADM	
NSTRUCTOINS;			
		w each question showing ALL your work	ings
1 Evaluate the following;			72
	5 1/10 + 2 9/10	(4mks)	

- 2 Use tables to find squares of each of this numbers
 - (a) 0.32

(b) 0.6128

- (c) 0.0001497
- (2mks each)

- 3 Find using tables the square roots of each of the following numbers;
 - (a) 0.0529
- (b) 0.009823

- (c) 689432
- (2mks each)

- 4 Evaluate using tables
- (a) $(0.706 \times 20.5)^2$

(4mks)

32.2

(b) $(23.5)^2 \times 0.701^2$

(4mks)

3.4

5 Express as a single fraction in its lowest form

 $(a)a^{2}b + b^{2}a + 3$

(3mks)

4ab 4ab 4

(b) 1 (a+b) +1

A²bc ab²c abc²

(3mks)

6 Which of the following ratios is greater?

- (a) 2:3 or 1:4
- (b) 8:9 or 10:11
- (c) 5:20r 20:17 (2mks each)

7 Find the ratio a:c if;

(3mks)

(3mks)

8 Simplify by use of common factors

(a)
$$3bx - 3by + 4ax - 4ay$$

(4mks)

$$4a + 3b$$

(b) $4xy - 3x + 8y^2 - 6y$

(3mks)

9 A man invested sh 36000 in two companies P and Q. P pays a divided of 11 ¼% while Q pays a divided of 10 ½%. If from his total investment he obtained a return of 10 ¾%, how much money did he invest in each company? (4mks)

10 The length of an arc of a circle is 9.42 cm. If the diameter of the circle is 10 cm, find the angle subtended by the arc at the center of the circle (3.142) (3mks)

11 A flower bed is measuring 3m by 1.5 m is surrounded by a path 1 m wide. Find the area of the path. (4mks)

12 Tree tractors each working eight hours a day can plough a field in five days. How many days would two such tractors working 10 hours a day take to plough the same field? (3mks)_

13 Find the perimeter of the following figure.

(3mks)

14 In a quality control analysis 3.5 % of all parts of a machine were declared sub-standard. If there were 72 sub-standard parts how many parts were analyzed? (4mks)