

# FOCUS A365

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## GATITU SEC. SCHOOL

Form 1 | Term 2 | 121 A - Mathematics | 28-Jun-16 | Mid Term

ADM..... NAME ..... CLASS ..... TIME: 1hr 45Min

### INSTRUCTIONS:

1. Write your name, class and ADM number in the spaces provided above.
2. Answer all the questions provided in this question paper
3. All workings must be clearly shown
4. Any acts of cheating will render your examinations nullified
5. Sign and write the date of the examination in the spaces provided below

Invigilator's Name	Date Issued	Date Returned	Date Revised	Student's signature

### For examiner's use only

Question/Section/Page	1	2	4	4	5	6	Total
Max. Score							70
Candidate's Score							

### Questions

1. Write the following numbers in words.
  - a. 733,736,252,137 (1mk)
  - b. 29,374,808,041 (1mk)
2. Round off the following numbers to the nearest numbers indicated in the bracket.
  - a. 3,486,789 (1000) (1mk)

- b. 864,942 (10000) (1mk)
3. What is the place value and the total value of the digit underlined below
- a. 3,847,698 (2mks)
- b. 98,374,803,041 (2mks)
4. In Gatundu Sec. School the number of boys is 239 and that of girls is 237. If 28 students transferred at the beginning of the term, find how many students remained? (2mks)
5. A mother divides a certain number of mangoes among her **five** daughters so that each got **six** mangoes .If she was left with **three** mangoes, how many mangoes did she have initially? (3mks)
6. Wanjiku had 3469 bags of beans, each weighing 90kg .She sold 2654 of them.
- a. How many kilograms of maize of she left with? (2mks)
- b. If she added 468 more bags of beans how many bags of beans did she end up with? (1mk)
7. Three bells ring at an interval of 40minutes, 45 minutes and 60minutes. If they ring simultaneously at 7.00am, at what time will they next ring together? (3mks)

8. Three tanks are capable of holding 36, 84 and 90 litres of milk .Determine the capacity of the greatest vessel which can be used to fill each of them an exact number of times (3mks)
9. The GCD of three numbers is 30 and their LCM is 900 .If two of the numbers are 60 and 150. What are other possible numbers? (3mks)
10. On a certain day, a student measured temperature inside a deep freezer and found that it was  $3^{\circ}\text{C}$  while the room temperature was  $24^{\circ}\text{C}$  .What was the temperature difference between the room and the freezer . (2mks)
11. Evaluate  $\frac{1}{2}\left\{\frac{3}{5} + \frac{1}{4}\left(\frac{7}{3} - \frac{3}{7} \text{ of } 1\frac{1}{2} \div 5\right)\right\}$  (4mks)
12. Three boys shared some money .The youngest got  $\frac{1}{12}$  of it, the next got  $\frac{1}{9}$  and the eldest got the remainder.
- a. What fraction of the money the eldest got (1mk)
- b. If the eldest got sh.330, what was the original sum of the money (2mks)

13. Convert the following into fractions

a.  $0.\dot{2}1\dot{5}$

(2mks)

b.  $0.6\dot{7}$

(2mks)

14. Simplify

a.  $3p + 6n - 2(p-10p)$

(2mks)

b.  $6x^2m - (4x^2m + mx^2) + x^2$

(2mks)

15. A father is **three** times as old as the son. If the sum of their ages in 5 years' time will be 58 years.  
Find their current ages

(3mks)

16. A trader buys a bag of maize and sells it at a profit of sh. 200. If there buying price was sh.  $y$ . Write an expression in terms of  $y$  for the percentage profit ? (3mks)

17. Simplify by use of common factors (3mks)

$$\frac{3CX - 3CY + 4AX - 4AY}{4A + 3C}$$

18. A rectangle whose length is 7cm longer than its width has a perimeter of 120cm.  
a. Find the width of the rectangle. (3mks)

b. Find the area of the rectangle (2mks)

c. If the cost of the material used to make the rectangle is shs.30 per centimeter squared ( $\text{cm}^2$ ).  
What will be the cost of the material used to make up the entire rectangle (2mks)

d. Two similar triangles are obtained from the rectangle .What is the area of each triangle?  
(2mks)

e. What is the hypotenuse of the triangles (2mks)

19. After spending  $\frac{5}{6}$  of his May salary on his school fees, Omondi was left with Sh.1500. How much did he earn that month?  
(2mks)

20. Find the greatest number which, when divided by 181 and 236 leave a remainder of 5 in each case.  
(3mks)

21. Show whether the following numbers are divisible by 3  
a. 3457 (1mk)

b. 555 (1mk)

c. 634,578 (1mk)

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**GOOD LUCK FROM MATHEMATIC DEPARTMENT**