

**PRIME MINISTER'S OFFICE**  
**REGIONAL ADMINISTRATION AND LOCAL GOVERNMENT**  
**BUSEGA DISTRICT COUNCIL**  
**FORM ONE TERMINAL EXAMINATION**  
**MATHEMATICS**

042

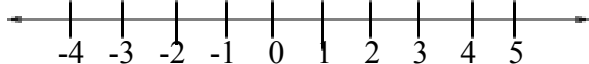
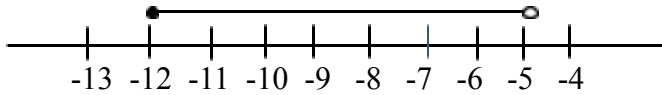
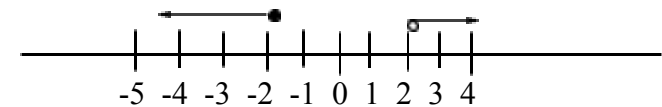
TIME:2:30 HOURS

MAY,2026

**INSTRUCTIONS.**

1. This paper consists of 10 questions
2. Answer all questions
3. Show your work clearly and all writing must be in black or blue ink except drawings which must be in pencil.
4. Write your examination number on every page of your answer sheet(s).

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1. (a). Define the word Mathematics and give one advantage of studying Mathematics.  
 (b). Explain how mathematics relate with Physics and Chemistry.
2. (a). Indicate the following on a number line.  $-2 < Z < 4$ .  
 (b). Study the following number line. 
  - (i). Write all real numbers which do not exceed 2.
  - (ii). Write all real numbers between -3 and 4.
3. (a). If  $x = 0.3\overline{55}$  and  $y = 0.\overline{1818}$ . Find the value of  $x + y$   
 (b) Janeth spent  $\frac{1}{5}$  of her salary on food, Tshs 24,000/= on bills and the remaining equal to  $\frac{2}{3}$  on other expenditures. find her salary.
4. (a). Evaluate each of the following and arrange the answers in ascending order.  
 $-|-4|$ ,  $-9$ ,  $|-10|$ ,  $4$ ,  $-|17|$ ,  $|13|$ .  
 (b). Write down the inequalities, given the following number line.
  - (i). 
  - (ii). 
5. (a). How many integers  $Z$  are on the interval  $-5 \leq Z < 10$ ?  
 (b). Find the absolute value of  $\frac{-13}{10} - \frac{-13}{10} - \frac{4}{5} - \frac{4}{5}$
6. (a). Write the following numbers to requested decimal places.
  - (i). 4.20098 (two decimal places)
  - (ii). 9.98 (one decimal place)
  - (iii). 17.49704 (4 decimal places)
- (b). Evaluate the following  $\frac{2.84+1.2}{6.28-3.49} - \frac{2.84+1.2}{6.28-3.49}$  into 1 decimal place.

7. (a). Estimate the number of 46cm by 46cm tiles which will be required to cover a room measuring 3.84m by 2.98m  
 (b). A box can contain 7 pencils. There are 251 pencils to be packed in these boxes. Approximate the required number of boxes and determine the number of pencils which will be left unpacked.

8. (a). A factory got a profit of Tshs.67,459,853 after selling its products. How much profit did the factory get to the nearest thousands and ten thousands.  
 (b) Solve the following system of simultaneous equation by elimination method;

$$2x + y = 10 \quad 2x + y = 10$$

$$3x - 2y = 1 \quad 3x - 2y = 1$$

9. (a). If A:B = 7:9, B:C = 3:5 then find A:B:C  
 (b). The ratio of the number of girls to that of boys in a school is 7:12. If the number of boys in the school is 1380, find  
 (i). The number of girls in the school  
 (ii). The total number of students in the school

10. (a). Solve for the value of x, given.  $\frac{x-8}{7} - \frac{x-8}{7} = \frac{2x+4}{4} - \frac{2x+4}{4} = \frac{x-6}{2} - \frac{x-6}{2}$

- (b). Simplify the following expression and use the given values to evaluate the simplified expression.

$$3a - 5b - 7a + 6c + 7a \quad 3a - 5b - 7a + 6c + 7a \quad \text{If } a = 3, b = 2 \text{ and } c = 5.$$

$$a = 3, b = 2 \text{ and } c = 5.$$