

# SECTION: A: ( 60marks )

Answer all the questions in this section and showing all your work clearly

1. (a) Change repeating decimal  $0.5\overline{16}$  into fraction (03marks)  
 (b) Evaluate  $51 + 3 + 20\% \text{ of } (43 + 7) \times 3 - 7$  (03marks)
2. (a) Simplify  $3\sqrt{50} + 5\sqrt{32} + 4\sqrt{8}$  (03marks)  
 (b) Simplify  $\frac{3a^2y^4}{12x^4} + \frac{9ay^2}{3x^4y}$  (03marks)
3. (a) 64% of students in form four are boys, the class has 90 girls. How many boys are in form four ? (03marks)  
 (b) Write 0. 0654348 to  
 (i) Standard notation  
 (ii) Correct to four decimal places  
 (iii) To four significant figures (03marks)
4. (a) Given that  $\underline{a} = 6\underline{j} - 2\underline{i}$ ,  $\underline{b} = 2\underline{i} + \underline{j}$  and  $\underline{c} = 3\underline{i} - 5\underline{j}$ .  
 Find (i)  $|2\underline{a} + \underline{b} - 3\underline{c}|$   
 (ii) Scalar t and k if  $t\underline{a} + k\underline{b} = 4\underline{i} - 3\underline{j}$  (03marks)  
 (b) What value of n which make a line passing through the point A(-5, n) and B(1,2) also perpendicular to the equation  $x = 2y + 3$  (03marks)
5. (a) A translation T takes point A( 5, -1) on to A' (3,12)  
 Find the image of a point B(-8,-10) Under the same translation (03marks)  
 (b) In a class of 35 students each student take either one or two subject (English, Kiswahili, French) If 13 students take English, 22 students take Kiswahili, 17 students take French , 6 students take both Kiswahili and English, 3 student take both French and English . Find the number of students who take both French and Kiswahili. (03marks)
6. (a) With reference to figure below, calculate the length  $\overline{CE}$ , where  $BC = 8\text{cm}$ ,  
 $\overline{DE} = 6\text{cm}$  and  $AE = 9\text{cm}$



(3marks)

# Form 4 Mathematics Exam Paper 2

**ML Yell**



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