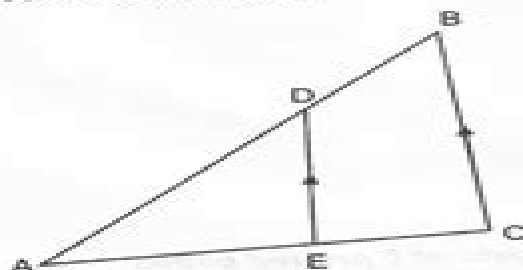


SECTION: A: (60marks)

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

Clifford Lane



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