

5.0 THE YEAR 2012 KCSE EXAMINATION MARKING SCHEMES

5.1 MATHEMATICS (121 AND 122)

5.1.1 Mathematics Alternative A Paper 1 (121/1)

1.	$\frac{\frac{6}{5} - \frac{4}{3}}{\frac{1}{8} - \frac{1}{4}} - \frac{14}{15}$ $= \frac{-\frac{2}{15}}{-\frac{1}{8}} - \frac{14}{15}$ $= \frac{16}{15} - \frac{14}{15}$ $= \frac{2}{15}$	M1 M1 M1 A1 4	numerator denominator
2.	$\frac{1}{0.216} = 4.630$ $\frac{\sqrt{0.512}}{0.216} = 0.8 \times 4.630$ $= 3.704$	B1 M1 A1 3	
3.	$(2x^2 - 3y^2)^2 + 12x^2y^2$ $= 4x^4 - 12x^2y^2 + 9y^4 + 12x^2y^2$ $= 4x^4 + 9y^4$	M1 A1 2	
4.	$\frac{24}{2} = \frac{1}{2} \times 8 \times x \sin 30^\circ$ $x = \frac{12}{4 \sin 30} = 6 \text{ cm}$ $\text{perimeter} = 2(6 + 8) = 28$	M1 M1 A1 3	or equivalent
5.	$9^{2y} \times 2^x = 9 \times 8$ $(3^2)^{2y} \times 2^x = 3^2 \times 2^3$ $(3^2)^{2y} = 3^2 \text{ and } 2^x = 2^3$ $4y = 2 \text{ and } x = 3$ $y = \frac{1}{2} \text{ and } x = 3$	M1 M1 A1 3	equating indices

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RC Schank



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