KCSE 2007 MATHEMATICS PAPER 1

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1. Evaluate without using mathematical tables or a calculator

 $0.0084 \times 1.23 \times 3.5$

2.87x0.056

Expressing the answer as a fraction in its simplest form. (2 marks)

- 2. The size of an interior angle of a regular polygon is 3x° while its exterior angle is (x-20)°. Find the number of sides of the polygon. (3 marks)
- Expand the expression (x2 y2) (x2 + y2) (x4 y4) (2 marks)
- 4. A Kenyan businessman bought goods from Japan worth 2, 950 000 Japanese yen. On arrival in Kenya custom duty of 20% was charged on the value of the goods.

If the exchange rates were as follows

- 1 US dollar = 118 Japanese Yen
- 1 US dollar = 76 Kenya shillings

Calculate the duty paid in Kenya shillings (3 marks)

- 5. The gradient of the tangent to the curve y = ax3 + bx at the point (1,1) is -5 Calculate the values of a and b (4 marks)
- Simplify the expression 1 5a⁻ 10ab2
 3a2 5ab + 2b2

(3 marks)

- A square brass plate is 2 mm thick and has a mass of 1.05 kg. The density of the brass is 8.4 g/cm3. Calculate the length of the plate in centimeters. (3 marks)
- 8. Given that x is an acute angle and $\cos x = 2.5$, find without using mathematical tables or a calculator, $\tan (90 x)^n$. (3 marks)
- A cylindrical solid of radius 5 cm and length 12 cm floats lengthwise in water to a depth of 2.5 cm as shown in the figure below.

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Albert A Gayle

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