

KCSE 2007 MATHEMATICS PAPER 1

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1. Evaluate without using mathematical tables or a calculator

$$0.0084 \times 1.23 \times 3.5,$$

$$2.87 \times 0.056$$

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

2. The size of an interior angle of a regular polygon is $3x^\circ$ while its exterior angle is $(x - 20)^\circ$. Find the number of sides of the polygon. (3 marks)

3. Expand the expression $(x^2 - y^2)(x^2 + y^2)(x^4 - y^4)$ (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

$$\diamond 1 \text{ US dollar} = 118 \text{ Japanese Yen}$$

$$\diamond 1 \text{ US dollar} = 76 \text{ Kenya shillings}$$

Calculate the duty paid in Kenya shillings (3 marks)

5. The gradient of the tangent to the curve $y = ax^3 + bx$ at the point (1,1) is -5. Calculate the values of a and b (4 marks)

6. Simplify the expression $15a^2 - 10ab^2$
 $3a^2 - 5ab + 2b^2$

(3 marks)

7. 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 $\cos x = \frac{2}{5}$, find without using mathematical tables or a calculator, $\tan(90 - x)^\circ$. (3 marks)

9. 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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Zhe Xu



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