CARIBBEAN SECONDARY EDUCATION CERTIFICATE EXAMINATION (JANUARY 2015)

MATHEMATICS - Paper 02 General Proficiency.

2 hours and 40 minutes

1. Number operations

b. Fractions

$$1 - \frac{3}{8} = \frac{5}{8}$$
i.
$$food = \frac{1}{3} \times \frac{5}{8} = \frac{5}{24}$$

1 -
$$\frac{3}{8} = \frac{5}{8}$$

ii. $saves = \frac{2}{3} \times \frac{5}{8} = \frac{10}{24} = \frac{5}{12}$

c. Currency exchange

ii.
$$\frac{1386}{700} = $1.98$$

2. Simplify

a.
$$p^3q^2 \times pq^4 = p^4q^2$$

b.
$$\frac{\alpha}{3} + \frac{3\alpha}{2} = \frac{11\alpha}{6}$$

c. Factorize completely

i.
$$x^2 - 5x + 4 = (x-4)(x-1)$$

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Andrew Glassner

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