

MATHEMATICS

Paper 02 – General Proficiency

2 hours 40 minutes

22 MAY 2013 (a.m.)

1. Number

a. --

i. $\frac{11}{18}$

ii. 1.3524

b. The better buy is decided on how much are you getting per dollar spent.

More is better. So we compare both $\frac{350ml}{\$4.2} = 83.3ml / \$$ and

$\frac{450ml}{\$5.13} = 87.72ml / \$$, we see that buying the 450ml is better

c. --

i. \$768 interest in the first year

ii. \$6000 remains to be paid

iii. \$480 interest in the second year calculated on the reducing balance

2. Algebra

a. Factorize completely

i. $2x^3 - 8x = 2x(x-2)(x+2)$

ii. $3x^2 - 5x - 2 = (3x+1)(x-2)$

b. --

i. $F = \frac{9}{5}C + 32 \Rightarrow C = \frac{5}{9}(F - 32)$

ii. $C = \frac{5}{9}(113 - 32) = 45^\circ C$

c. --

i. .

a. $10(500 - x)$

June 2013 Maths Paper Questions

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