

JANUARY 2010 CXC MATHEMATICS - PAPER 2

Section I

1. a. **Required to calculate:** $\frac{2.76}{0.8} + 8.7^2$

Calculation:

The arithmetic is not difficult in this question, but we could save valuable time by using the calculator and which is allowable. So,

$$\begin{aligned}\frac{2.76}{0.8} + 8.7^2 &= 3.45 + 75.69 \quad (\text{Using the calculator}) \\ &= 79.14 \quad (\text{exact value})\end{aligned}$$

- b. **Data:** Salesman salary is \$3 140 per month together with 2% commission on sales.

- (i) **Required to calculate:** Fixed salary for the year.

Calculation:

$$\begin{aligned}\text{The total fixed salary for the year of 2009} &= \text{monthly salary} \times 12 \\ &= \$3140 \times 12 \\ &= \$37\,680\end{aligned}$$

- (ii) **Required to calculate:** Commission for the year.

Calculation:

$$\begin{aligned}\text{The commission for the year of 2009} &= 2\% \text{ of } \$720\,000 \\ &= \frac{2}{100} \times \$720\,000 \\ &= \$14\,400\end{aligned}$$

- (iii) **Required to calculate:** Total income for the year.

Calculation:

$$\begin{aligned}\text{The total income for the year of 2009} &= \text{The total fixed salary for 2009} + \\ &\quad \text{The total earned in commission for 2009} \\ &= \$37\,680 + \$14\,400 \\ &= \$52\,080\end{aligned}$$

- c. **Data:** $1\frac{1}{3}$ cups of milk and 2 cups of pancake mix produces 8 pancakes.

- (i) **Required to calculate:** Number of cups of pancake mix to make 12 pancakes.

Calculation:

From the given instructions:

8 pancakes are produced from using 2 cups of mix.

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