WEEK 11- NOTES, EXAMPLES AND EXERCISES

STRAND FOUR: MEASUREMENT

SUB TOPIC: Simple Money Calculations

LESSON OBJECTIVES: Students should be able to:

- Perform simple money calculations to domestic purposes: calculate values from given percentages.

EXAMPLE: Which option is better buy?

	Option A:	Option B:
	7 packets/25g of bongo at $1.99	3 packets/25g of bongo at $1.05
Price /packet	$1.99 ÷ 7 = $0.28	$1.05 ÷ 3 = $0.35
	cheaper	

Exercise

Calculate the price per unit of the following and state which is a better option.

	Option A:	Option B:
	125 g for $2.70	500g for $9.45
Price /unit		
Better buy		

<u>SUB TOPIC</u>: **Percentage**

<u>LESSON OBJECTIVES</u>: Students should be able to:
- Calculate values from given percentages.

<u>Note</u>:

✓ A percentage is a number or ratio expressed as a fraction of 100.

<u>Example</u>:

i. You scored 80 out of 100 in your mathematics exams, writing it as a percentage:

$$\frac{\text{Correct}}{\text{Total}} = \frac{80}{100} \Rightarrow 80\%$$

ii.   Tim scored 40 out of 50 in his English short test. What was his percentage score?

$$\frac{40}{50} \times 100 = 80\%$$

<u>Note</u>:

❖ Whenever writing as a percentage add % sign to the answer.

<u>Exercise</u>

1. Express the following as percentages:

   a. $\dfrac{25}{100}$ b. $\dfrac{9.3}{100}$ c. $\dfrac{1}{2}$ d. $\dfrac{9}{16}$ e. $\dfrac{1}{80}$

2. Express the decimals as percentages:

   a. 0.10   b. 0.37   c. 0.5   d. 0.02

3. Express the percentages as fractions:

   a) 8%   b) 25%   c) 750%   d) 0.91%

4. Find the following percentage:

   (a) 5% of 100 kg   (b) 0.25% of $100   (c) 10% of 200L

   (d) 72% of 500g   (e) 8.5% of $1200   (f) 120% of $150