WORKSHEET 8

BA SANGAM COLLEGE   **YEAR 9**
SUBJECT: MATHEMATICS   **NAME OF STUDENT: _____**

STRAND	*SOCIAL MATHEMATICS*
SUB-STRAND	*Money, Ratio and Proportion*
Content Learning Outcome	➢ *Extend knowledge on use of money calculations by the use of real life situations*

<u>Percentage (%)</u> means per hundredth or items are measured out of a hundred.

E.g. 3% means the ratio $\frac{3}{100}$ or 0.03.

$$Perentage = \frac{Quantity\ being\ compared}{Total\ quantity} \times 100$$

<u>Example 1</u>

a) Express 13% as a fraction.

$= \frac{13}{100}$

b) Express $\frac{3}{4}$ as a percentage.

$= \frac{3}{4}$ X 100 = 75%

c) Express 37% as a decimal.

$= \frac{37}{100}$ = 0.37

d) Express 0.47 as a percentage.

= 47%

<u>Note:</u> 1. whenever we change a value into percentage, we always multiple by 100.

2. To write as fractions, always use the fraction button in the calculator.

3. To write as decimals, always use the division button in the calculator.

<u>Example 2</u>

Work out 45% of $200.00.

$$\frac{45}{100} \times \$200.00 = \$90.00$$

<u>ACTIVITY</u>

1. Express the following as percentages.

   (a) $\frac{1}{4}$ (b) $\frac{3}{10}$ (c) 0.2   (d) 0.12   (4 marks)

2. Express the following percentages as decimals.

   (a) 4%   (b) 12%   (c) 41.6%   (3 marks)

3. Express the following percentages as fractions.
   (a) 54%   (b) 40%   (c) 8%   (3 marks)

4. Work out the following.
   (a)   8% of $200.00 (b) 10% of $50.00 (c) 2 % of $ 400.00   (3 marks)

5. Work out the percentage for each of the following.
   (a) $35.00 of $100.00   (b) $30.00 of $150.00   (c) $18.00 of $45.00 (3 marks)

THE END