PENANG SANGAM HIGH SCHOOL

WORKSHEET 8

STRAND: 5 MEASUREMENTS

SUB STRAND: Money

Week 22

Learning Outcome:

- a. Interpret percentage of given values
- b. Describe buying goods on hire purchase
- c. Calculate the total cost incurred, saved or loss when purchasing goods on hire purchase
- d. Discuss the advantages and disadvantages of goods bought on hire purchase

Percentages

- Means out of 100(part of 100)
- $a\% is \frac{a}{100}$
- Type of fractions that always have a denominator 100.
- To convert a fraction or decimal to a percentage ,the decimal or a fraction is multiplied by 100.
- Selling Price = Cost price + profit

• % profit =
$$\frac{\text{profit}}{\text{cost price}} \times 100$$

• % loss =
$$\frac{loss}{cost \ price} \times 100$$

Example 1

75 % means 75 out of 100 or
$$\frac{75}{100}$$

As decimal , 75% = 0.75

As a fraction,
$$75\% = \frac{75}{100} = \frac{3}{4}$$



Example 3

Decrease 15kg by 4%



Example 4

Calculate 6 % of \$55.

$$\frac{6}{100}$$
 × \$55 = \$3.30

Discount

- Amount usually given as a percentage of money by which the price of goods is decreased in sales.

Example

Find the discounted price if \$80 is discounted by 12%.

Solution

Discount = marked price × % discount

 $\$80 \times \frac{12}{100}$

= \$9.60

Discounted Price = \$80 - \$9.60

\$70.40

Exercise

Write the following as percentage

 a. 47%

b. 80%

- 2. Write the following percentage as decimals
 - a. 20%
 - b. 50%
- 3. Write each fractions as percentages
 - a. $\frac{3}{5}$

- b. $\frac{2}{3}$
- Calculate 20% of each of the following

 a. 70
 - b. 30
- 5. Write as a **percentage** a. 30 marks out of 40 marks
 - b. 200g out of a kg
 - c. 10minutes out of an hour
- 6. Increase 250 by:
 - a. 20%
 - b. 50%
- 7. Decrease 500 by:
 - a. 10%
 - b. 60%
- 8. A handicraft stall at Rakiraki Market allows a discount of 12%. Mrs Young buys handicrafts worth \$186.
 - a. How much discount will Mrs. Young get?
 - b. What will she pay for the handicrafts?

In a sale the cost of a computer is reduced by 30%. The normal price of the computer was \$1499. Claculate the sale price of the computer