Grade 9

Mathematics

Covid -19 – weekly school

january 4th week

percentage

- When a seller sells an item at the price at which he bought it, he neither earns a profit nor incurs a loss accordingly if
  The selling price > the cost
- Then a profit is earned
  Profit = selling price – cost similarly if
  The cost > the selling price
- Then a loss is incurred
  Loss = cost – selling price
  - Purchase price / production cast (ගත් මිල)
  - Selling price (විකුණුම් මිල)
  - Loss (අලාභය)
  - Profit (ලාභය)

ex: 1. A vendor bought 100 mangos at the price of Rs.18 per fruit and sells the price of Rs.12 Per fruit calculate the loss incurred by him.

The buying price of stock of mangos = Rs.18 x 100

= Rs.1800

Income generated by selling the stock = Rs.12x 100

= Rs.1200

The loss incurred in selling the whole stock of mangos = Rs.1800 - 1200

= Rs.600 //

- Do the exercise 4.1

Calculating profit percentage / loss percentage

it is very important to calculate loss /profit percentage when same amount of profit / loss incurred.

1.Amal bought a handkerchief for Rs.80 and sells at Rs.100 and earns a profit of Rs.20. Nimal bought a handkerchief for Rs.120 and sells at Rs.140 and earns a profit of Rs.20 determine who has engaged in the more profitable sale.

To calculate the profit percentage he can we that formulae.

$$\text{Profit percentage} = \frac{\text{profit}}{\text{Buying price (or production cost)}} \times 100$$

Profit earn by Amal	profit earn by Nimal
20/80 x100%	20/12 x 100%
= 25%	= 16. 6%

According to it Amal transaction is more profitable.

Method 1

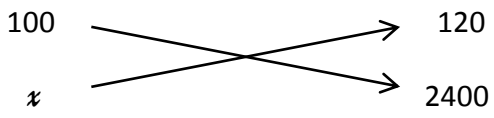
2. if a vendor bought a mobile phone for Rs.24000 and earns a profit percentage of 20%. calculate the buying price of mobile phone.

If buying price is Rs.100, the selling price is Rs.120. (when buying price is 100 selling price 100 + 20)

There fore

24000 x 100/120 = Rs.20000/=

Method 2



We can build up a simple equation by multiplying the numbers showing by arrow heads.

$$\frac{100 \times 2400}{120} = \frac{x \times 100}{120}$$

$$x = 200$$

- do the exercise 4.2