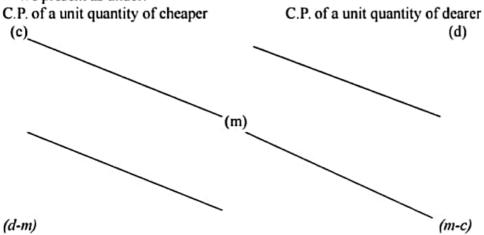
IMPORTANT FACTS AND FORMULAE

- 1. Alligation: It is the rule that enables us to find the ratio in which two or more ingredients at the given price must be mixed to produce a mixture of a desired price.
- 2. Mean Price: The cost price of a unit quantity of the mixture is called the mean price.
- 3. Rule of Alligation: If two ingredients are mixed, then

(Quantity of cheaper) = (C.P. of dearer) - (Mean price) (Quantity of dearer) (Mean price) - (C.P. of cheaper)

We present as under:



(Cheaper quantity): (Dearer quantity) = (d - m): (m - c).

4. Suppose a container contains x units of liquid from which y units are taken out and replaced by water. After n operations the quantity of pure liquid= $\left[x(1-y/x)^n\right]$ units.

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