

Percentage...

Fractions and decimals to percentage (Lesson 1.7 p8)

Turn into a percentage

Write 28c as a percentage of \$4....

$$\begin{aligned}\% &= \frac{28c}{\$4} \times 100\% \\ &= \frac{28c}{400c} \times \frac{100}{1} \\ &= 7\%\end{aligned}$$

Percentage of Quantities

$$\begin{aligned}12\% \text{ of } 5000 &= \frac{12}{100} \times \frac{5000}{1} \\ &= 600\end{aligned}$$

Money

Profits, Loss, interest and Discounts

$$\begin{array}{l} \text{Selling Price} \\ \text{(Or Sale Price)} \end{array} = \text{Marked Price} - \text{Discount} \qquad \text{SP} = \text{MP} - \text{D}$$

$$\begin{array}{l} \text{Marked Price} \\ \text{(Or Cost Price)} \end{array} = \text{Selling Price} + \text{Discount} \qquad \text{MP} = \text{SP} + \text{D}$$

$$\text{Discount \$} = \text{Marked Price} - \text{Selling Price} \qquad \text{D\$} = \text{MP} - \text{SP}$$

$$\text{Discount \% of Marked Price} = \frac{\text{discount}}{\text{markedprice}} \times \frac{100}{1} \%$$

$$\begin{aligned} 12\% \text{ of } \$5000 &= \frac{12}{100} \times \frac{5000}{1} \\ &= \$600 \end{aligned}$$

Profit..

$$\text{Profit} = \text{Selling Price} - \text{Cost Price} \qquad \text{P} = \text{SP} - \text{CP}$$

$$\text{Selling Price} = \text{Cost Price} + \text{Profit} \qquad \text{SP} = \text{CP} + \text{P}$$

$$\text{Profit \% of Cost Price} = \frac{\text{profit}}{\text{CP}} \times \frac{100}{1} \%$$

Loss..

$$\text{Loss} = \text{Cost Price} - \text{Selling Price} \qquad \text{L} = \text{CP} - \text{SP}$$

$$\text{Selling Price} = \text{Cost Price} - \text{Loss} \qquad \text{SP} = \text{CP} - \text{L}$$

$$\text{Loss \% of Cost Price} = \frac{\text{loss}}{\text{CP}} \times \frac{100}{1} \%$$

Interest

P ...Principal is sum of money invested

r ... Rate is the percentage of interest charged per annum

n ... number of years

Simply Interest

Find the simply interest on \$250 at 2.5% per annum for one year.

Interest = 2.5% of \$2500

$$= \frac{2.5}{100} \times \frac{\$250}{1}$$

$$= \$6.25$$

Interest for 6 years = \$6.25 x 6

$$= \$ 37.50$$

OR

(Principal: \$250 Rate: 2.5% Years: 6)

$$\begin{aligned} \text{Simply Interest (SI)} &= \frac{P \times r \times n}{100} \\ &= \frac{\$250 \times 2.5 \times 6}{100} \\ &= \$37.50 \end{aligned}$$