

Pg 574

15.7: Selling Price - ^{Mark-up} based on Cost

$$m = \text{Cost} \cdot \% \\ SP = C + m$$

Ex#1: $C = 28.45$ a) $m = C \cdot \%$ b) $SP = C + m$
 160% $28.45 \cdot 1.60$ $28.45 + 45.52$
 $m = 45.52$ $SP = 73.97$

1. $C = \$50$ a) $m = C \cdot \%$ b) $SP = C + m$
 70% $50 \cdot .70$ $50 + 35$
 $m = 35.00$ $SP = 85.00$

Ex#2: 215% a) $m = C \cdot \%$ b) $SP = C + m$
 $m = 123.81$ $\frac{123.81}{2.15} = \frac{C \cdot 2.15}{2.15}$ $57.59 + 123.81$
 $\$57.59 = C$ $SP = 181.40$

5) 95% a) $m = C \cdot \%$ b) $SP = C + m$
 $m = 1.90$ $1.90 = C \cdot .95$ $2.00 + 1.90$
 $.95$ $2.00 = C$ $SP = 3.90$

25) $m = C \cdot \%$ b) $SP = C + m$
 $SP = C + m$ $999 = 416.25 + m$
 $999 = C + 1.4C$ -416.25 -416.25
 $999 = 2.4C$ $\$582.75 = m$

a) $416.25 = C$

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$$m = \text{Cost} \cdot \% \\ SP = C + m$$

Ex#1: $C = 28.45$
 160%

a) $m = C \cdot \% \\ 28.45 \cdot 1.60 \\ m = 45.52$

b) $SP = C + m \\ 28.45 + 45.52 \\ SP = 73.97$

1. $C = \$50$
 70%

a) $m = C \cdot \% \\ 50 \cdot .70 \\ m = 35.00$

b) $SP = C + m \\ 50 + 35 \\ SP = 85.00$

Ex#2: 215%
 $m = 123.81$

a) $m = C \cdot \% \\ 123.81 = C \cdot 2.15 \\ \frac{123.81}{2.15} = \frac{C \cdot 2.15}{2.15} \\ \$57.59 = C$

b) $SP = C + m \\ 57.59 + 123.81 \\ SP = 181.40$

⑤ 95%
 $m = 1.90$

a) $m = C \cdot \% \\ 1.90 = C \cdot .95 \\ \frac{1.90}{.95} = \frac{C \cdot .95}{.95} \\ 2.00 = C$

b) $SP = C + m \\ 2.00 + 1.90 \\ SP = 3.90$

②⑤ $m = C \cdot \% \\ SP = C + m \\ 999 = C + 1.4C \\ 999 = 2.4C \\ \frac{999}{2.4} = \frac{2.4C}{2.4}$

b) $SP = C + m \\ 999 = 416.25 + m \\ -416.25 \quad -416.25 \\ \$582.75 = m$

a) $416.25 = C$