

15. \$ Net-Profit Rate Pg 566 $O = SP \cdot O\%$

Net Profit % = $\frac{\text{Net Profit}}{SP}$ $NP = M - O$
 $M = SP - C$

Ex#1 $SP = 49.99$ a) $M = SP - C$
 $C = 23.74$ $49.99 - 23.74$
 $O = 30\%$ $M = 26.25$

b) $O = SP \cdot O\%$
 $49.99 \cdot 0.30$
 $O = 15.00$

① a) $M = SP - C$
 $SP = 119.50$ $119.50 - 44.78$
 $C = 44.78$ $M = 74.72$

c) $NP = M - O$
 $26.25 - 15.00$
 $NP = 11.25$

b) $O = O\% \cdot SP$
 $40 \cdot 119.50$

d) $NP\% = \frac{NP}{SP} \times 100 = 22.5\%$

c) $NP = M - O$
 $74.72 - 47.80$

$NP = 26.92$

d) $NP\% = \frac{26.92}{119.50} \times 100 = 22.5\%$

Ex#2 $NP\% = 25\%$ $NP = M - O$ $NP\% = \frac{NP}{SP}$
 $M = 11.98$ $11.98 - 6.33$ $(SP) \cdot 25 = \frac{5.65}{SP}$
 $O = 6.33$ $NP = 5.65$ $SP(0.25) = 5.65$
 $\cdot 25$ $\cdot 25$

② $NP\% = 28\%$ $NP = M - O$ $SP = \$22.60$
 $M = 4.98$ $4.98 - 2.07$ $NP\% = \frac{NP}{SP}$
 $O = 2.07$ $NP = 2.91$ $(SP) \cdot 28 = \frac{2.91}{SP}$

④

	M	SP	O%	O	NP
BB	40	50	30%	15	25

a) $NP = M - O$
 $40 - 15 = 25$
 $NP = 25$
 $(SP) \cdot 30 = \frac{25}{SP}$
 $SP(0.30) = 25$
 $\cdot 30$ $\cdot 30$
 $SP = 10.39$

15. # Net-Profit Rate Pg 566 $O = SP \cdot O\%$

Net Profit % = $\frac{\text{Net Profit}}{SP}$ NP = M - O
 M = SP - C

Ex #1 SP = 49.99 a) M = SP - C
 C = 23.74 49.99 - 23.74
 O = 30% m = 26.25

b) O = SP · O%
 49.99 · .30
 O = \$15.00

c) NP = M - O
 26.25 - 15.00
 NP = 11.25

d) NP% = $\frac{11.25}{49.99} \times 100 = 22.5\%$

① a) M = SP - C
 119.50 - 44.78

SP = 119.50
 C = 44.78
 O = 40%

M = \$74.72

b) O = O% · SP
 .40 · 119.50

O = 47.80

c) NP = M - O
 74.72 - 47.80

NP = \$26.92

d) NP% = $\frac{26.92}{119.50} \times 100 = 22.5\%$

Ex #2 NP% = 25%
 M = 11.98
 O = 6.33

NP = M - O
 11.98 - 6.33

NP = \$5.65

NP% = $\frac{NP}{SP}$

(SP) · 25 = $\frac{5.65}{SP}$ (SP)

SP (·25) = $\frac{5.65}{.25}$

SP = \$22.60

② NP% = 28%
 M = 4.98
 O = 2.07

NP = M - O
 4.98 - 2.07

NP = \$2.91

NP% = $\frac{NP}{SP}$

(SP) · 28 = $\frac{2.91}{SP}$ (SP)

SP (·28) = $\frac{2.91}{.28}$

SP = \$10.39

	M	SP	O%	O	NP
④ BB	40	50	30%	a) $\frac{50 \cdot .3}{15}$	b) NP = M - O 40 - 15 = 25

c) $\frac{25}{50} \times 100 = 50\%$