



### 13.2 Hiring Administering Wages + Salaries

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Cost of living adj - COLA - Keeping up w/ inflation  
 Merit increase - good work

Ex #1

$$\text{New Salary} = \text{Previous Salary} + \text{COLA} + \text{Merit}$$

$$\begin{aligned} N.S &= P.S + \text{COLA} + M \\ &= 40,000 + .028(40,000) + (.035 \cdot 40,000) \\ &= 40,000 + 1120 + 1400 \end{aligned}$$

$$N.S = \$42,520$$

①

$$\begin{aligned} N.S &= P.S + \text{COLA} + M \\ 60,000 &= 60,000 + .028 \cdot 60,000 + .02(60,000) \\ 60,000 &+ 1680 + 1200 \end{aligned}$$

$$NS = 62,880$$

Ex #2

$$\begin{aligned} NS &= PS + \text{COLA} + M \\ 50,492.50 &= X + .021X + .042X \\ 50,492.50 &= \frac{1.063X}{1.063} \end{aligned}$$

$$\$47,500 = X$$

③

$$\begin{aligned} NS &= PS + \text{COLA} + M \\ 19.98 &= X + .0325X + .0475X \\ 19.98 &= \frac{1.08X}{1.08} \end{aligned}$$

$$\$18.50 = X$$

$$19.98(40) + 7 \cdot 1.5 \cdot 19.98 = 799.20 + 209.79 = 1008.99$$

$$18.50(40) + 7 \cdot 1.5 \cdot 18.50 = 740 + 194.25 = 934.25$$

$$1008.99 - 934.25 = 74.74$$

⑤

a)  $\$70,000$     b)  $.028 \times 70000 = 1960$     c)  $.036 \times 70000 = 2520$     d)  $\$74,480$

⑩

a)  $\frac{50,800}{26} = 5800$     b)  $NS = PS + \text{COLA} + M$   
 $\quad \quad \quad = 5800 + .038(5800)$

$$\frac{52}{2} = 26$$

⑪

a)  $9.15 \times 40 \times 52 = 19,032.00$

b)  $NS = PS + \text{COLA} + M$   
 $19,964.57 = 19,032 + 0 + .049(19,032)$

c)  $\frac{19,964.57}{52} = \frac{46}{52} = \dots$

$$NS = P.S + \text{COLA} + M$$

$$\quad = 9.15 + 0 + .049(9.15)$$

12a)  $7280 \times .07 = \dots$

b)  $NS = PS + \text{COLA} + M$   
 $525 = 500 + 0 + .05(500)$

c)  $7280 \times .075 = \dots$

⑬

$$\begin{aligned} NS &= PS + \text{COLA} + M \\ 688.32 &= X + .0325X + \dots X \\ 688.32 &= \frac{1.075X}{1.075} \\ &= X \end{aligned}$$