

Assignment 11.2

$$\begin{aligned} \textcircled{1} \quad & 7(20) + 2(30) + 12(90 \times .2) \\ & + 2(10) + 1(20) + 3(25) + 1(50) \\ & = \boxed{\$581} \end{aligned}$$

$$\begin{aligned} \textcircled{2} \quad & 22(20) + 12(30) + 15(80 \times .2) \\ & + 100 + 100 + 9(10) + 4(20) + 6(25) \\ & + 2(50) + 9,260 = \boxed{\$10,920} \end{aligned}$$

$$\textcircled{3} \quad \text{a) } 25(10) = \boxed{\$250}$$

$$\text{b) } 12,000(.2) = \boxed{\$2,400}$$

$$\text{c) } 3,000 + 250 + 2,400 = \boxed{\$5,650}$$

$$\textcircled{5} \quad \text{a) } 52(10) = \boxed{\$520}$$

$$\text{b) } 16,980(.15) = \boxed{\$2,547}$$

$$\text{c) } 3,500 + 520 + 2,547 = \boxed{\$6,567}$$

$$\textcircled{7} \quad \text{a) } 30(10) = \boxed{\$300}$$

$$\text{b) } 45,000(.15) = \boxed{\$6,750}$$

$$\text{c) } 5,000 + 300 + 6,750 = \boxed{\$12,050}$$

9 a) $35(10) = \boxed{\$350}$

b) $37,500(.2) = \boxed{\$7,500}$

c) $4,000 + 350 + 7,500 = \boxed{\$11,850}$

11 a) $\boxed{\$1,000}$ Deductible

b) Co-Payments = $18(20) + 15(30)$
 $+ 15(90 \times .2)$
 $= \boxed{\$1,080}$

c) Hospital Charges = $100 + 24,560(.1)$
 $= \boxed{\$2,556}$

d) $1,000 + 1,080 + 2,556 = \boxed{\$4,636}$

13 a) Deductible = $\boxed{\$1,000}$

b) Co-Payments = $4(20) + 5(30)$
 $+ 4(125 \times .3) + 1(10)$
 $+ 2(20) = \boxed{\$430}$

c) Hospital Charges = $150 + 18,750(.1)$
 $= \boxed{\$2,025}$

d) $1,000 + 430 + 2,025 = \boxed{\$3,455}$

19 x: Monthly Premium

$$\begin{array}{r} .35x = 178.45 \\ \hline .35 \end{array}$$

$$x = 509.86$$

Annual Premium

$$12(509.86) = \boxed{\$6,118.29}$$