

## Chapter 1 Review

(15)  $(8.96)(36) = \boxed{\$322.56}$

(17)  $(8.755)(38.925) = \boxed{\$340.79}$

(19)  $\frac{(15.40)x}{15.40} = \frac{450}{15.40}$   $x = 29.22$   
Round to nearest quarter hour  
 $x = \boxed{29.25 \text{ hrs}}$

(21)  $(9.65)(40) + (9.65 \times 1.5)(5)$   
=  $386 + 72.38 = \boxed{\$458.38}$

(23)  $(15.35)(40) + (15.35 \times 1.5)(16)$   
=  $614 + 368.40 = \boxed{\$982.40}$

(25) 6:45 A.M. to 11:30 A.M. and 12:00 P.M. to 3:45 P.M.

Strategy:  $\underbrace{7 \text{ A.M. to } 11:30 \text{ A.M.}}_{\text{4 hrs 30 min}} + \underbrace{3 \text{ hrs } 45 \text{ min}}_{\text{15 min}}$

$$\begin{array}{r} 7 \text{ hrs } 90 \text{ min} \\ + 3 \text{ hrs } 30 \text{ min} \\ \hline = 8 \text{ hrs } 30 \text{ min} = \boxed{8\frac{1}{2} \text{ hrs}} \end{array}$$

27 6:56 A.M. to 11:45 A.M. and 12:30 P.M. to 4:00 P.M.

Strategy:  $\underbrace{7 \text{ A.M. to } 11:45 \text{ A.M.}}_{\text{Strategy: 1 P.M. to 4:00 P.M.}}$

$$\underline{4 \text{ hrs } 45 \text{ min} + \underline{4 \text{ min}} + 3 \text{ hrs} + \underline{30 \text{ min}}}$$

$$7 \text{ hrs } 79 \text{ min}$$

$$= 8 \text{ hrs } 19 \text{ min}$$

Round to nearest quarter hour

$$= 8 \text{ hrs } 15 \text{ min} = \boxed{8\frac{1}{4} \text{ hrs}}$$

29 7:10 A.M. to 11:30 A.M. and 12:30 P.M. to 4:25 P.M.

Strategy:  $\underbrace{8 \text{ A.M. to } 11:30 \text{ A.M.}}_{\text{1 P.M. to 4:25 P.M.}}$

$$\underline{3 \text{ hrs } 30 \text{ min} + \underline{50 \text{ min}} + 3 \text{ hrs } 25 \text{ min} + \underline{30 \text{ min}}}$$

$$6 \text{ hrs } 135 \text{ min}$$

$$= 8 \text{ hrs } 15 \text{ min}$$

Round to nearest quarter hour

$$= 7 \text{ hrs } 45 \text{ min} = \boxed{7\frac{3}{4} \text{ hrs}}$$

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8:00 A.M. to 3:30 P.M. with 30min break is 7 hours of work  
Monday through Thursday working 7 hour days

$$(9.75)(28) + 9.75x = 360.75$$

↑  
Hours worked Friday →

$$\begin{array}{r} 273 \\ - 273 \\ \hline 0 \end{array} + 9.75x = 360.75$$

$$\cancel{9.75x} = \cancel{87.75} \quad x = 9 \text{ hours}$$

$$8:00 \text{ A.M.} + 9 \text{ hours} + 30 \text{ min break} \rightarrow \boxed{5:30 \text{ P.M.}}$$

$$33 \quad (2.38)(85) = \boxed{\$202.30}$$

$$35 \quad 68(3.50) + 15(4.50) + 23(6.05) \\ = 238 + 67.50 + 139.15 \\ = \boxed{\$444.65}$$

$$37 \quad \frac{48,950}{52} = \boxed{\$941.35}$$

$$39 \quad \frac{86,660}{24} = \boxed{\$3,610.83}$$

$$41 \quad \frac{40,663}{12} = \boxed{\$3,388.58}$$

$$43 \quad \frac{3,782 \times 12}{52} = \$872.77 \text{ Weekly Salary}$$

$$18.50(44) + (18.50 \times 1.5)x = 872.77$$

$$\cancel{814} + 27.75x = 872.77 \\ - \cancel{814} \qquad \qquad \qquad - 814$$

$$\cancel{27.75x = 58.77} \\ \cancel{27.75} \qquad \qquad \qquad \cancel{27.75}$$

$$x = 2.12 \text{ Round to nearest quarter hour} \\ \boxed{2 \text{ hours}}$$

$$(45) (122,360)(.0625) = \boxed{\$7,647.50} \quad 6\frac{1}{4} = 6.25$$

$$(47) 1,515 (.0565) = \underline{\$85.60}$$

Gross Pay:  $\boxed{\$250}$

$$(49) (26,348)(.18) = \boxed{\$4,742.64}$$

$$(51) (1,900)(.25) = 475$$

$$(1,000)(.27) = 270$$

$$(600)(.3) = 180$$

Amount over 2,900      Total:  $\boxed{\$925}$

$$(53) (5,000)(.05) = 250$$

$$(15,000)(.065) = 975$$

$$(3,458)(.07) = 242.06$$

Total:  $\boxed{\$1,467.06}$

$$(55) 5,000(.07) + (x - 5,000)(.09) = 578$$

$$350 + .09x - 450 = 578$$

$$\cancel{-100} + .09x = 578$$

$$\cancel{+100} \quad \quad \quad +100$$

$$\frac{.09x = 678}{.09} \quad x = \boxed{\$7,533.33}$$