

7.1.5

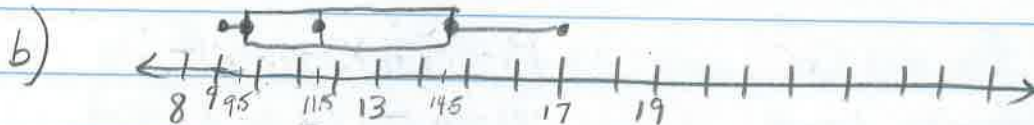
HWK

7-57) $\underbrace{9 \ 9 \ 9 \ 10 \ 11 \ 11}_{9.5} \ \underbrace{12 \ 13 \ 14 \ 15 \ 16 \ 17}_{11.5 \ 14.5}$

a) median ($2^{\text{nd}} Q$) = 11.5

$$1^{\text{st}} Q = 9.5$$

$$3^{\text{rd}} Q = 14.5$$



c) IQR $14.5 - 9.5 = \underline{5}$

7-58) $\frac{1}{4}$ of $x = 16$ what is $\frac{3}{4}$ of x

$$\frac{1}{4} \cdot x = 16$$

$$\frac{1}{4}x = 16$$

$$4\left(\frac{1}{4}x\right) = 16(4)$$

$$x = 64$$

$$\frac{3}{4} \cdot \frac{64}{1} = \frac{48}{1} = 48$$

$\frac{1}{4}$ of 64 is 16 therefore $\frac{3}{4}$ of 64 = 3 · 16 = 48

7-59) 180 min using $\frac{3}{7}$ of her monthly minutes

$$180 = \frac{3}{7}x$$

$$\left(\frac{7}{3}\right)180 = \left(\frac{3}{7}x\right)\left(\frac{7}{3}\right)$$

$$\frac{1260}{3} = \frac{3x}{3}$$

$$420 = x$$

min.

$$180 = \frac{3}{7}x$$

$$\left(\frac{7}{3}\right)180 = \frac{3}{7}x\left(\frac{7}{3}\right)$$

$$\frac{1260}{3} = x$$

$$420 = x$$

7-60)

a) $x < 3$ b) $x < -1$ c) $x \geq -2$

7-61) 30% off sale reg price #45

$$(0.3)(45) = \$13.50 \text{ savings}$$

7-62)

a) $3.3(x+4)$

$$3.3x + 13.2$$

b) $9 - 5\frac{1}{2}x - 3(-2x+1)$

$$9 - 5\frac{1}{2}x + 6x - 3$$

$$9 - 3 - 5\frac{1}{2}x + 6x$$

$$6 + \frac{1}{2}x$$

c) $2.2(3.1+x) + 3x$

$$6.82 + 2.2x + 3x$$

$$6.82 + 5.2x$$