#42, p. 147

4,756,505 tons - capacity
2,894, 112 tons - corrently holding
~1600 tons - added per day
y = corrently holding

X = # of days from now

y = 2,896, 112 (if x is 8)

+ 2,896,112 = F2,896,112

$$\frac{1,860,393}{1600} = \frac{1600x}{1600}$$
$$\sim 1163 = x$$

#38, p. 145

\$ 124 = repair cost

total cost of repairs = cost of parts + cost of labor

\$76 = cost of parts

\$32/hr = labor charge

$$t = time to repair (hours)$$

\$ 124 = \$76 + 32 t

 $\frac{48}{32} = \frac{32t}{32}$

1.5 = t

More complicated problems:

Might require that you combine like terms:

Might need to use the distributive property:

$$3y + 4(y + 7) = 25$$
 $3y + 4y + 28 = 25$
 $74128 = 25$

7y128=25...
Sometimes, you can shorted the distributive property

$$\frac{2}{3}(7x+14) = ||9 \cdot \frac{3}{2}|$$

$$7x+14 = \frac{357}{2}$$

$$\frac{2}{3}(7x+14) = ||9|$$

$$\frac{2}{3}(7x+14) = ||9|$$

$$\frac{14x}{3} + \frac{28}{3} = ||9|$$

Homework:

p. 150 3-54 (every 3rd)