

Solutions 3.5

1. a) $5x = 85$

b) $x + 8 = 177$

c) $3 + 2x = 33$

or $2x + 3 = 33$

d) $\overset{1^{\text{st}} \#}{x} + \overset{2^{\text{nd}} \#}{(x+1)} + \overset{3^{\text{rd}} \#}{(x+2)} = 168$

$3x + 3 = 168$

2. a) $\frac{5x}{5} = \frac{85}{5}$
 $x = 17$

b) $x + 8 = 177$
 $x = 177 - 8$
 $= 169$

c) $3 + 2x = 33$
 $\begin{array}{r} -3 \qquad -3 \\ \hline 2x = 30 \\ \frac{2x}{2} = \frac{30}{2} \\ x = 15 \end{array}$

d) $3x + 3 = 168$
 $\begin{array}{r} -3 \qquad -3 \\ \hline 3x = 165 \\ \frac{3x}{3} = \frac{165}{3} \end{array}$

$x = 55$

so the numbers are

55, 56, 57