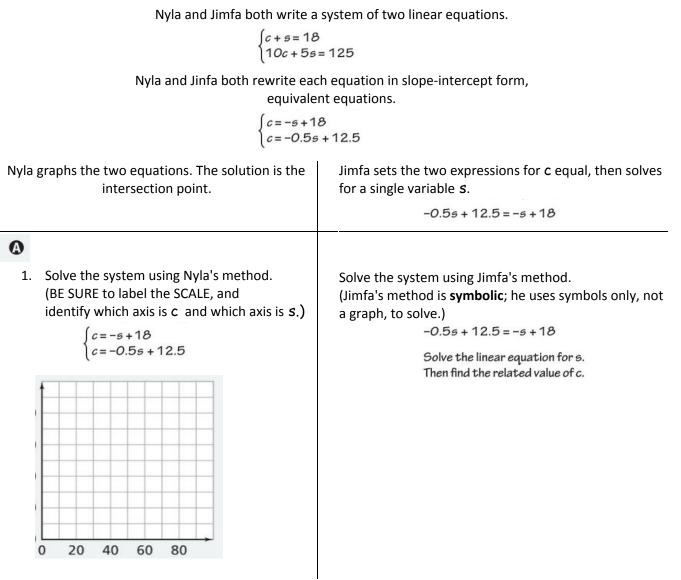
2_1: Solving Systems with y = mx +b

Remember the \$600 raised by selling shirts and caps? It is ba-a-a-ck!





How can you find the number of shirts and number of caps sold?



How many shirts and caps did the class sell? Explain your reasoning.

In part B, use Jimfa's method; do NOT graph.

B Use symbolic methods to find values of *x* and *y* that satisfy each system. Check your solution by substituting the values into the equations and showing that the resulting statements are true.

1. $\begin{cases} y = 1.5x - 0.4 \\ y = 0.3x + 5 \end{cases}$ **2.** $\begin{cases} x + y = 3 \\ x - y = -5 \end{cases}$ **3.** $\begin{cases} 3x - y = 30 \\ x + y = 14 \end{cases}$

4.
$$\begin{cases} x + 6y = 15 \\ -x + 4y = 5 \end{cases}$$
 5.
$$\begin{cases} x - y = -5 \\ -2x + 2y = 10 \end{cases}$$
 6.
$$\begin{cases} x - y = -5 \\ -2x + 2y = 8 \end{cases}$$