

### Warmup 11-14-13

Beach Hotel in Cancun is offering two weekend specials. One includes a 2-night stay with 3 meals and cost \$195. The other includes a 3-night stay with 5 meals and cost \$300. What is the cost of a single meal?

$$\begin{aligned} -3(2x + 3y = 195) \\ 2(3x + 5y = 300) \end{aligned}$$

$$\begin{aligned} -6x - 9y = -585 \\ + 6x + 10y = 600 \end{aligned}$$

$$\underline{y = 15}$$

$$\begin{array}{r} 2 \cdot 1 \quad 2 \cdot 2 \quad 2 \cdot 3 \quad 2 \cdot 4 \\ 2 \quad 4 \quad 6 \quad 8, 10, 12 \\ 3 \quad 6 \quad 9, 12, 15 \quad 3 \\ \hline 3 \times 2 \quad 16 \\ \times 5 \\ \hline 80 \end{array}$$

$$2x + 3(15) = 195$$

$$\begin{aligned} 2x + 45 &= 195 \\ -45 &-45 \\ \hline \end{aligned}$$

$$2x = 150$$

$$\underline{x = 75}$$

**Ticket Out of the Door 11-14-13**

**Last Saturday Missy bought pants and shirts. Each shirt cost \$125 and each pair of pants cost \$225. She came home with 26 items and spent exactly \$4950. How many pants and shirts did Missy buy?**

**Ticket Out of the Door 11-14-13**

**You are selling tickets for a high school basketball game. Student tickets cost \$3 and general admission tickets cost \$5. You sell 350 tickets and collect \$1450. How many of each type of ticket did you sell?**

