8.8 Part 3 Solving Multi-Step Word Problems

Example: Mariella's parents have budgeted at most \$575 for her Quinceanera celebration. The cost of the party room is \$75. How much can the family spend per guest on food if each of the 40 guests receives a \$5 favor?

$$40f + 275 \le 575$$
 $-275$ 
 $-275$ 
 $-275$ 
 $-275$ 
 $-275$ 
 $-275$ 
 $-275$ 
 $-275$ 

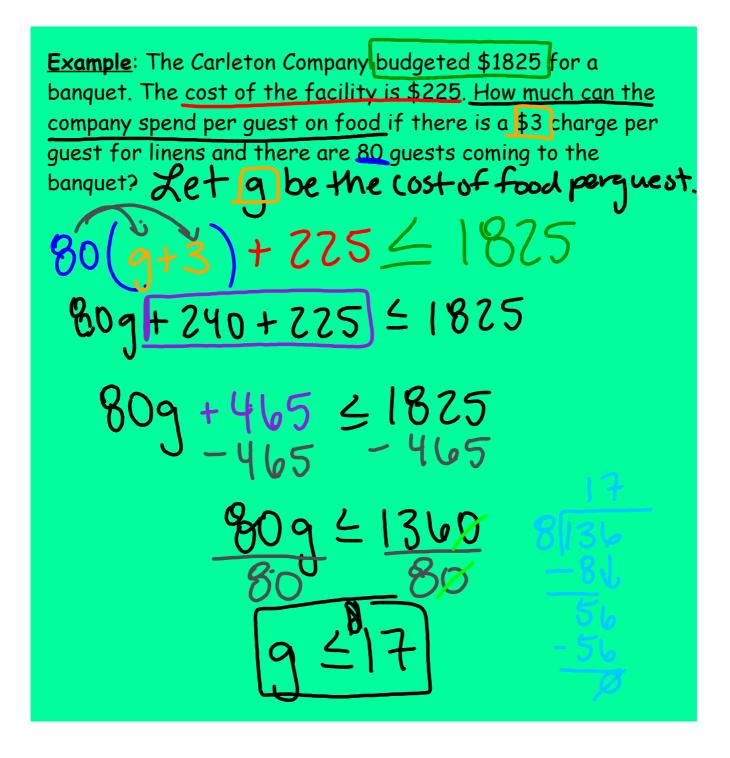
**Example**: Sofia recycled 3 pounds less than the amount that

James recycled. Hannah recycled 3 times the amount that 3 responds recycled. If they recycled a total of 53 pounds, how many pounds did Sofia recycle?

Let v be the amount Sofia recycled.

$$\frac{1}{2} + \frac{3}{2} + \frac{1}{2} = 53$$

$$5r + 3 = 53$$
 $-3 - 3$ 



Example: You and three triends are going to the fair. The cost for parking is \$5 per car and admission to the fair is \$19 per person. If you have a total of \$113, what is the maximum amount each person can spend on food? Let fbe the amount each can spend on