

Name \_\_\_\_\_

Date \_\_\_\_\_

## Creating Equations and Inequalities - Guided Lesson Explanation

### Explanation#1

John bought 15 packets of colors

Equation = 15 packets

In each packet there were 25 colors. We have 15 packs of 25. Or

Equation = 15 packets x 25 colors

5 packets of colors were wasted :

(15 packets – 5 packets) x 25 colors

Total number = (10 packets) x 25 colors = 250 colors

The equation would be: (15 packets – 5 packets) x 25 colors = x

### Explanation#2

Choose a variable for the bottles of lemon juice.

The total number of bottles =  $x + 5 + 3$ , or

The total number of bottles =  $x + 8$

### Explanation#3

She cannot go below \$500.

We can write this as an expression in this format:

Balance (\$2000)  $\geq$  \$500

$\$2000 - t(\$30) \geq \$500$  We can now solve for t to find the number of withdrawals he can make.

$- t(\$30) \geq \$500 - \$2000$

$- t(\$30) \geq - \$1500$

$t \leq - \$1500 \div -\$30$

$t \leq 50$

The answer is 50 or less times.

