## **Unit 7 Objective 6 Remediation**

## Interpret inequalities given real-world situations

#### For each of the following:

- Underline Key Words in the Problem
- Solve the Inequality
- Write the Answer in Sentence Form

### Example

Dallastown lacrosse had \$2,000 to spend on supplies. The team purchased a lacrosse stick for \$90. New lacrosse balls cost \$3 each. The inequality  $90 + 3b \le 2,000$  can be used to determine the number of new lacrosse balls (b) that the team can purchase. Determine the number of lacrosse balls the team can purchase.

Inequality: $90 + 3b \le 2,000$		Sentence Form:
		The team can buy at most 636 lacrosse
-90	-90	balls.
$3b \le 1910$		
÷ 3	÷ 3	
$b \leq 636.\overline{6}$		

Try These:

Ex. 1

Jane has \$700 to spend on pizza and soda for a party. Jane spent \$200 on soda. Pizzas cost \$11 each. The inequality  $200 + 11p \le 700$  can be used to determine the number of pizzas that Jane can purchase. Determine the maximum number of pizzas Jane can purchase.

## Ex. 2

The Dallastown volleyball team had \$3,000 to spend on supplies. The team spent \$56 on a new net. New Tachikara volleyballs cost \$39.99. The inequality  $56 + 39.99\nu \le$  3,000 can be used to determine the number of new volleyballs (v) the team can purchase. Determine the maximum number of volleyballs the team can purchase.

# Ex. 3

Mary can spend \$100 on candy and gum. She spent \$45 on candy. Each pack of gum costs \$1. The inequality  $45 + g \le 100$  can be used to determine the number of packs of gum (g) that Mary can purchase. Determine the maximum number of packs of gum Mary can purchase.

# Ex. 4

Fran has \$300 to spend on party supplies and pizza for her birthday party. Fran spent \$180 on party supplies. Pizzas cost \$8 each. The inequality  $\$p + \$180 \le \$300$  can be used to determine the number of pizzas (p) that she can purchase. Can Fran purchase 16 pizzas?