

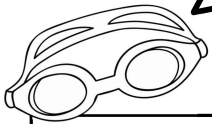
## APPLYING MULTI-STEP EQUATIONS

Remember the questions to ask yourself as you solve real-world problems:

What is happening in the situation? What information is given?

What are you solving for?

Does your solution make sense in the context of the problem?



Practice setting up an equation for each of the situations below. Do not solve.

1. Stephanie is registering her son for swim lessons. There is a one-time \$45 registration fee, plus a \$20 fee per lesson. Stephanie paid a total of \$225. For how many lessons did Stephanie register?

a. What does the variable represent? \_\_\_\_\_

b. Write an equation: \_\_\_\_\_

2. The length of a rectangle is five less than three times the width. The perimeter is 102 feet. Find the dimensions of the rectangle.

a. What does the variable represent? \_\_\_\_\_

b. Write an equation: \_\_\_\_\_

For 3-7, practice setting up an equation and solving the real-world situation.

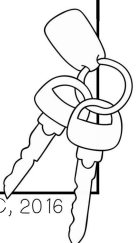
3. Mr. Martinez rented a car for one day. The charge was \$36, plus \$0.18 per mile. If the total cost of the rental was \$75, how many miles did he drive?

**I KNOW:**

**I NEED TO KNOW:**

**PLAN AND WORK:**

**SOLUTION:**



4. Shonda uses a \$10 off coupon to purchase a purse at Chic Mart. At the register, she signs up for a credit card which gives her 20% off her total after the coupon. If Shonda's total was \$60.00, what was the original price of the purse?

**I KNOW:**

**I NEED TO KNOW:**

**PLAN AND WORK:**

**SOLUTION:**

5. At Thanksgiving, Plentiful Pies baked 100 pumpkin and pecan pies combined. The pies were sold in a two-pack with one of each flavor. When the shop closed, Plentiful Pies had 4 pies leftover. How many customers purchased a two-pack of pies at Thanksgiving?

**I KNOW:**

**I NEED TO KNOW:**

**PLAN AND WORK:**

**SOLUTION:**



6. Three brothers each purchase two chili dogs and an order of tater tots. The tater tots cost \$2.50. If their grand total was \$34.50, then how much did each chili dog cost?

**I KNOW:**

**I NEED TO KNOW:**

**PLAN AND WORK:**

**SOLUTION:**

7. The length of a rectangle is 5 more than twice the width. If the length is 60 inches, what is the width?

**I KNOW:**

**I NEED TO KNOW:**

**PLAN AND WORK:**

**SOLUTION:**