Writing and Solving Equations from Word Problems
Guided Notes

A. A new one-year membership at RecPlex costs $160. A registration fee of $28 is paid up front, and the rest is paid monthly. How much do new members pay each month?

1. Define the variable (What do we not know?):

2. Determine the constant (if there is one):

3. What is the rate (look for “each”, “per”, something that will repeat):

4. Write the equation and solve:

B. Juan’s cell phone company charges $35 a month for phone service plus $0.50 for each text message. How many text messages does Juan send in a month if his bill was $52?

1. Define the variable:

2. Determine the constant:

3. What is the rate:

4. Write the equation and solve:

C. Friendship’s soccer team purchased uniforms and equipment for a total cost of $912. The equipment cost $612, and the uniforms cost $25 each. How many uniforms did the school purchase?

1. Define the variable:

2. Determine the constant:

3. What is the rate:

4. Write the equation and solve:
D. Long’s Coffee Shop sells a refill mug for $8.95. Each refill costs $1.50. Last month, Jalissa spent $26.95 on a mug and refills. How many refills did she buy?

Write the equation and solve:

E. The bill for the repair of a computer was $179. The cost for parts was $44, and the labor charge was $45 per hour. How many hours did it take to repair the computer?

Write the equation and solve:

F. The Elk Grove Bowling Alley offers a special. Each game costs $2.50, and shoe rental $2. You spend $14.50 total. How many games did you bowl?

Write the equation and solve:

G. The sum of the measures of the angles of all triangles is 180°. If one angle of the triangle measures 45°, and the other two angles are equal, what is the measure of each of the other two angles?

Write the equation and solve:

H. Sandra scores 4 baskets in her first basketball game. She then scored the same number of baskets in each of her next 3 games. If Sandra made 19 baskets total, how many baskets did she score in each of the three games?

Write the equation and solve:

I. You and three friends go to the town carnival. You have a coupon for $20 off that will save your group money! If the total bill to get into the carnival was $100, how much does one regular price ticket cost?

Write the equation and solve: