**Problem Solving**

**Decimal Equations**

Write the correct answer.

1. Bee hummingbirds weigh only 0.0056 ounces. They have to eat half their body weight every day to survive. How much food does a bee hummingbird have to eat each day?

2. The desert locust, a type of grasshopper, can jump 10 times the length of its body. The locust is 1.956 inches long. How far can it jump in one leap?

3. In 1900, there were about 1.49 million people living in California. In 2000, the population was 33.872 million. How much did the population grow between 1900 and 2000?

4. Juanita has $567.89 in her checking account. After she deposited her paycheck and paid her rent of $450.00, she had $513.82 left in the account. How much was her paycheck?

5. The average body temperature for people is 98.6°F. The average body temperature for most dogs is 3.4°F higher than for people. The average body temperature for cats is 0.5°F lower than for dogs. What is the normal body temperature for dogs and cats?

6. Seattle, Washington, is famous for its rainy climate. Winter is the rainiest season there. From November to December the city gets an average of 5.85 inches of rain each month. Seattle usually gets 6 inches of rain in December. What is the city’s average rainfall in November?

Circle the letter of the correct answer.

7. The equation to convert from Celsius to Kelvin degrees is \( K = 273.16 + C \). If it is 303.66°K outside, what is the temperature in Celsius degrees?
   - A 576.82°C
   - B 30.5°C
   - C 305°C
   - D 257.68°C

8. The distance around a square mirror is 6.8 feet. Which of the following equations finds the length of each side of the mirror?
   - F \( 6.8 - x = 4 \)
   - G \( x \div 4 = 6.8 \)
   - H \( 4x = 6.8 \)
   - J \( 6.8 + 4 = x \)