**Foundations of Algebra Unit 5 Day 7 Practice**

**Write an equation that models the situation. You do NOT have to solve!**

1. Five times the sum of e and 4 is equal to -7.

2. Jamie buys 9 CDs at same price per CD and a cassette tape for $9.45. His total bill was $118.89.

**Define a variable for each problem below. Then write an equation that can be used to model the following problem. Finally, use your equation to SOLVE the problem.**

3. At a concert, Nabila purchased three t-shirts and a concert program that cost $15. In total, Nabila spent $90. Find the cost of a single t-shirt if they all had the same price.

Variables: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Oberon Cell Phone Company advertises service for 3 cents per minute plus a monthly fee of $29.95. If Parker’s phone bill for October was $38.95, find the number of minutes he used.

Variables: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Jacqueline had $20 to spend on 7 raffle tickets. After purchasing them she had $6 left. How much did each raffle ticket cost?

Variables: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. An online retailer charges $6.99 plus $0.55 per pound to ship electronic purchases. How many pounds is a DVD player for which the shipping charge is $11.94?

Variables: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. The zoo offers special admission rates for large groups of visitors. The zoo charges $7.50 admission for the first visitor and $5.50 for each additional visitor in the group. Write an equation for the total cost of admission in terms of the number of visitors. How much is admission for a group of 8 visitors?

Variables: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_