**Applications Worksheet**

**Define a variable and write an equation for each situation. Then solve.**

**1. Suppose you are helping to prepare a large meal. You can peel 2 carrots per minute. You need 60 peeled carrots. How long will it take you to finish if you have already peeled 18 carrots?**

**2. One health insurance policy pays people for claims by multiplying the claim amount by 0.8 and then subtracting $500. Find the claim amount for an insurance payment of $4650.**

**3. Last season. Everett scored 48 points. This is 6 less than twice the number of points Max scored. How many points did Max score?**

**4. A cable TV company charges $24.95 a month for basic cable service and $6.95 a month for each additional premium channel. If Sami’s monthly bill is $45.80, how many premium channels is he receiving?**

**5. **

**6. You are fencing a rectangular puppy kennel with 25 ft of fence. The side of the kennel against your house does not need a fence. This side is 9 ft long. Find the dimensions of the kennel.**

**7. Canoe Rental: $5 per hour and $2 for life Jacket.**

 **John and two friends rent a canoe at a park. Each person must rent a life jacket. If the bill for the rental of the canoe and life jackets is $41, for how many hours did they rent the canoe?**

**8. The Rodriquez family rented a moving truck for $49.95 plus $.30 per mile. Before returning the truck, they filled the tank with gasoline, which cost $18.32. The total cost was $95.87. Find the number of miles the truck was driven.**

**9. Lumanauw’s Truck rental charges $54 a day plus 9 cents per mile. Jones’ Truck rental charges $38 a day plus 13 cents per mile. For how many miles will the cost of renting a truck for one day at Lumanauw equal the cost at Jones’?**