

# Problem Solving on the Wildlife Refuge Worksheet

**Calculations** (Use a separate piece of paper if solving more than four puzzles.)

Puzzle # \_\_\_\_\_

Puzzle # \_\_\_\_\_

Puzzle # \_\_\_\_\_

Puzzle # \_\_\_\_\_

## Post-Activity Questions

Apply the problem-solving method used for the Wildlife Refuge Puzzles to answer the following questions. Show all your work.

1. In 1999, the Mars Climate Orbiter spacecraft was lost as it attempted to orbit Mars. According to the investigative report, the main cause was the failure of one team to convert English units to metric. Given the ratios of 1 inch/2.54 centimeters and 10 mm/1 cm, determine how many millimeters are in 8 inches.
  
2. Rudy is attending a party for 15 people, and offered to bring BBQ chicken wings. One bucket of wings has 45 pieces, and Rudy figured on an average of six pieces per person. To find out how many buckets of wings to buy he divided 45 by 6 to get the number of servings in each bucket, and then multiplied that answer by 15 people. His final answer was 112.5. He knew that couldn't be right. What did Rudy do wrong? How many buckets of wings does Rudy need?