Solve each of the following word problems.

1. There is a jar on the cabinet by the refrigerator. Savannah pours two hundred eight milliliters of water in the jar six times to fill it, how many liters of water does it take to fill the jar?

2. Eric's father asked an engineer to survey the field behind their house. He wanted to plant some apple and pear trees there. According to the survey, the field is thirty-eight meters long and seventeen meters wide. What is the perimeter of the field in kilometers?

3. Taylor saw a raccoon in her back yard last weekend. She put out some food and a bowl with three hundred sixty milliliters of water in it. The raccoon ate all the food and drank three-fifths of the water. How much water did the raccoon drink?

4. Magic Meals sent out free samples to introduce its new product, Sushi Soup. Each sample weighs one hundred eighty-nine grams. The post office charges thirty-nine cents for each fifty-six grams of weight. How much would Magic Meals spend on postage to mail out one hundred seventy-seven free samples?

5. We have a new guest in our house. He is 0.54 meters long and weighs 4.1 kg. He is our new baby brother! The doctor said the baby should gain about one hundred thirty-six grams per week. At that rate, how much, in kilograms, will he weigh in 3 months?

6. Dylan is the best athlete in our school. He plays football, basketball, and baseball and does the pole vault for the track team. He can vault up to five meters and seventy-three centimeters. If he would like to be able to pole vault up to six and twelve hundredths meters, how many more centimeters does he need to pole vault to reach his goal?

7. There are six aluminum cans sitting on the shelf. Each can contains three hundred twenty-one milliliters of soup. Brittany poured all the soup into one bowl. How many liters of soup did she have?

8. Brandon looked at the ten-liter jug of Gruesome Green soda sadly. He had bet his friend that he could drink all of it and now he was sure his stomach would explode if he drank one more milliliter. He had already drunk three thousand, seven hundred milliliters. How much was left in the jug, in liters?
Convert each measure to grams.

9. 696 g 8,000 mg = __________ g
10. 611 g 6,000 mg = __________ g

Convert each measure to kg.

11. 673 kg 9,000 g = __________ g
12. 567 kg 5,000 g = __________ g

Compare the following metric measurements. Use >, <, or =.

13. 
483 cl + 26761 cl + 3057 ml _____ 49 L + 2087 kl + 371 L

14. 
4111 m + 5931 m + 32 mm + 4916 m _____ 195 km + 52 km + 3 cm + 689 km

15. 
52 mg + 276 cg + 3881 g _____ 7 cg + 46 g + 350 kg