Fractions and their Word Problems ***Name:***

1. At McDonald's, a cheeseburger has $\frac{1}{10}$ pound of meat. A quarter-pounder has $\frac{1}{4}$ pound of meat.

   a. How much more meat is used for the quarter-pounder?

   b. How much more meat is used for a quarter-pounder than a double cheeseburger?

2. A piece of paper is $8\frac{1}{2}$ inches by 11 inches. What are its dimensions if $2\frac{3}{5}$ inches are cut from the width, and $3\frac{3}{8}$ inches from the length?

3. Mr. Schmidt drives to work on two straight roads. One road is $6\frac{1}{3}$ miles long and the other road is $4\frac{3}{4}$ miles long. The roads are at right angles to each other. If a direct road were built between Mr. Schmidt and Hawthorne, it would be $7\frac{7}{8}$ miles long. How many miles would this road save Mr. Schmidt each trip?

4. Mr. Schmidt's car has a $15\frac{1}{5}$ gallon gas tank. The gas gauge shows $\frac{1}{4}$ of a tank remaining.

   a. How many gallons of gas remain?

   b. How many gallons of gas are needed to fill the tank?

   c. The gas pump fills the tank at a rate of $\frac{2}{3}$ gallons per minute. How long would it take to fill up the tank?

   d. The gas pump fills the tank at a rate of $\frac{2}{3}$ gallons per minute. How long would it take to fill an empty tank?

5. For the following question assume there the only eye colors are blue, green, and brown. In the seventh grade, $\frac{5}{9}$ of the students have brown eyes and $\frac{5}{12}$ have blue eyes.

   a. What fraction of the seventh grade have green eyes?

   b. What fraction of the seventh grade do not have brown eyes?

   c. If there are 108 students in the seventh grade, how many students have each type of eye color?

6. A rectangle has a width of $3\frac{3}{10}$ meters and a length of $5\frac{5}{6}$ meters.

   a. What is the rectangle's area?

   b. What is the rectangle's perimeter?

7. The area of a rectangle is $9\frac{13}{18}$ ft^2. If the length is $4\frac{3}{8}$ feet, what is the width?

8. The perimeter of a rectangle is $14\frac{11}{12}$ feet. If the length is $4\frac{3}{8}$ feet, what is the width?

9. Simplify: $\frac{1}{2}\bullet\frac{2}{3}\bullet\frac{3}{4}\bullet\frac{4}{5}\bullet\frac{5}{6}\bullet\ldots\bullet\frac{97}{98}\bullet\frac{98}{99}\bullet\frac{99}{100}$

10. $\frac{5}{8}$ of the students at Hawthorne are only Los Angeles Lakers fans. Of those who do not like the Lakers, $\frac{3}{4}$ like only the Los Angeles Clippers.

    a. What fraction of the ***entire*** school does not like the Lakers?

    b. What fraction of the ***entire*** school likes the Clippers?

    c. What fraction of the ***entire*** school does not like the Clippers?

    d. What fraction of the ***entire*** school does not like either the Lakers or the Clippers?