ASSIGNMENT: Fraction Review

Name: _____

Date: _____

1. Change each improper fraction to a mixed number.

a) $\frac{17}{4} =$

b) $\frac{75}{8} =$

c) $\frac{7}{2} =$

d) $\frac{35}{16} =$

2. Change each mixed number to an improper fraction.

a) $3\frac{5}{8} =$

b) $1\frac{7}{8} =$

c) $2\frac{3}{16} =$

d) $5\frac{1}{2} =$

3. Evaluate. Give your answers as mixed numbers, if applicable, in lowest terms. Show your work.

a) $\frac{3}{4} + \frac{5}{16} =$

b) $\frac{7}{8} - \frac{1}{2} =$

c) $\frac{5}{16} + \frac{3}{4} =$

d) $1\frac{3}{8} - \frac{1}{16} =$

e) $3\frac{5}{16} + 2\frac{1}{4} =$

f) $4\frac{3}{4} - \frac{5}{8} =$

4. Evaluate. Give your answers as mixed numbers, if applicable, in lowest terms. Show your work.

a) $\frac{1}{16} \times 4 =$

b) $5\frac{1}{2} \div 4 =$

c) $2\frac{7}{8} \times \frac{1}{4} =$

d) $3\frac{3}{4} \div \frac{5}{8} =$

5. What is the total thickness of a wall made from $\frac{5}{8}$ inch thick drywall nailed to a $\frac{3}{4}$ inch stud over $3\frac{1}{2}$ inch thick insulation?

6. A mechanic checking the alignment on a car finds that two wheels are $72\frac{1}{2}$ inches apart and the other two are $71\frac{3}{8}$ inches apart. What is the difference between the two measurements?

7. Wilhelmina, a seamstress is sewing bridesmaid's dresses. She orders the fabric from the US, where fabric is measured in yards. Each dress requires $3\frac{3}{4}$ yards of silk, $1\frac{1}{2}$ yards of lace fabric, and $7\frac{1}{4}$ yards of trim. How much of each type of material does Wilhelmina need to make 5 dresses?

8. Bernard is buying some lumber to finish a project. He needs three pieces of 2 by 4 that are each $4\frac{1}{2}$ feet long, and ten pieces that are each $5\frac{1}{4}$ feet long. What length of 2 by 4 does he need in total?

9. Caden is a baker. He cuts each $14\frac{1}{2}$ inch roll of dough into $1\frac{1}{2}$ inch slices for cinnamon buns. How many cinnamon buns can he make from one roll of dough?

10. How many $8\frac{1}{8}$inch lengths can Nathan cut from a 25 inch pipe?