## Problem set – fractions - 2

Name: \_\_\_\_\_\_ Date: \_\_\_\_\_\_

Solve each problem. Show all of your work. You may use a calculator, textbook, and notes.

For problems 1 through 10, put the correct sign, =, <, or > between each pair of fractions.

1. 
$$\frac{3}{8}$$
  $\frac{5}{8}$ 

6. 
$$\frac{1}{2}$$
  $\frac{3}{7}$ 

2. 
$$-\frac{2}{7}$$
  $-\frac{1}{7}$ 

7. 
$$-\frac{2}{3}$$
  $-\frac{3}{4}$ 

3. 
$$\frac{1}{8}$$
  $\frac{1}{10}$ 

8. 
$$\frac{5}{8}$$
  $\frac{9}{16}$ 

4. 
$$\frac{3}{8}$$
  $\frac{6}{16}$ 

9. 
$$-\frac{4}{9}$$
  $\frac{8}{13}$ 

5. 
$$-\frac{3}{8}$$
  $\frac{4}{6}$ 

10. 
$$\frac{1}{10}$$
  $\frac{2}{9}$ 

For problems 11, 12, and 13, write the numbers in order from least to greatest.

17. 
$$\frac{1}{2}, \frac{1}{3}, \frac{5}{16}, \frac{1}{8}$$

18. 
$$2\frac{5}{8}, -\frac{8}{16}, \frac{3}{32}, \frac{1}{10}$$

19. 
$$\frac{5}{8}, \frac{7}{16}, 1\frac{5}{32}, -\frac{4}{7}$$

For the remaining problems, express each answer exactly as a fraction in lowest terms, a mixed number in lowest terms, or a whole number. There are twelve inches in one foot, three feet in one yard, and sixteen ounces in one pound.
20. What fraction of a dozen is 9 eggs?
21. If a one-foot threaded rod is cut into four equal parts, how long is each part?
22. How many inches is a quarter foot?
23. How many inches is one third of a foot?
24. How many ounces is half of a pound?
25. How many inches is one half of a foot plus one third of a foot?
26. How many ounces is one half of a pound plus one fourth of a pound?
27. In Acme's parts inventory, a type 700 igniter is $1\frac{3}{4}$ feet long; a type 200 igniter is $1\frac{1}{6}$
feet long. How much longer is a type 700?
28. If one box weighs 12 ounces, and another weighs $1\frac{1}{8}$ pounds, by how many ounces do they differ in weight?