Date

1. Are the following expressions greater than or less than 1? Circle the correct answer.

a.
$$\frac{1}{2} + \frac{4}{9}$$

greater than 1

less than 1

b.
$$\frac{5}{8} + \frac{3}{5}$$

greater than 1

less than 1

c.
$$1\frac{1}{5} - \frac{1}{3}$$

greater than 1

less than 1

d.
$$4\frac{3}{5} - 3\frac{3}{4}$$

greater than 1

less than 1

2. Are the following expressions greater than or less than $\frac{1}{2}$? Circle the correct answer.

a.
$$\frac{1}{5} + \frac{1}{4}$$

greater than $\frac{1}{2}$

less than $\frac{1}{2}$

b.
$$\frac{6}{7} - \frac{1}{6}$$

greater than $\frac{1}{2}$

less than $\frac{1}{2}$

c.
$$1\frac{1}{7} - \frac{5}{6}$$

greater than $\frac{1}{2}$

less than $\frac{1}{2}$

d.
$$\frac{4}{7} + \frac{1}{8}$$

greater than $\frac{1}{2}$

less than $\frac{1}{2}$

3. Use > , < , or = to make the following statements true.

a.
$$5\frac{4}{5} + 2\frac{2}{3}$$
 _____8 $\frac{3}{4}$

b.
$$3\frac{4}{7} - 2\frac{3}{5}$$
 _____ $1\frac{4}{7} + \frac{3}{5}$

c.
$$4\frac{1}{2} + 1\frac{4}{9} = 5 + \frac{13}{18}$$

d.
$$10\frac{3}{8} - 7\frac{3}{5}$$
 _____ $3\frac{3}{8} + \frac{3}{5}$

4. Is it true that $5\frac{2}{3} - 3\frac{3}{4} = 1 + \frac{2}{3} + \frac{3}{4}$? Prove your answer.

5. A tree limb hangs $5\frac{1}{4}$ feet from a telephone wire. The city trims back the branch *before* it grows within $2\frac{1}{2}$ feet of the wire. Will the city allow the tree to grow $2\frac{3}{4}$ more feet?

6. Mr. Kreider wants to paint two doors and several shutters. It takes $2\frac{1}{8}$ gallons of paint to coat each door and $1\frac{3}{5}$ gallons of paint to coat all of his shutters. If Mr. Kreider buys three 2-gallon cans of paint, does he have enough to complete the job?

