Fraction Pre-Test
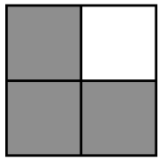
Name: _____

1. What fraction of each shape is shaded?

_____   _____   _____   _____
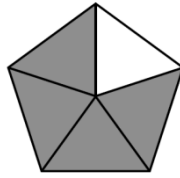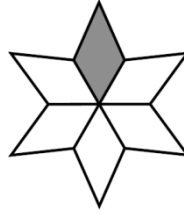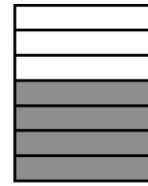
2. Simplify each fraction.

$$\frac{2}{8} = \qquad \frac{10}{100} = \qquad \frac{8}{12} = \qquad \frac{9}{24} =$$

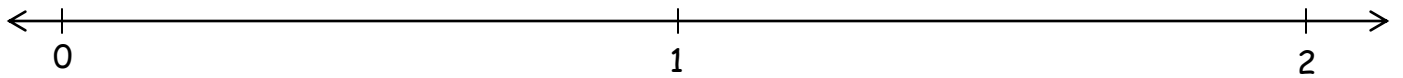3. Write an equivalent fraction for each fraction.

$$\frac{5}{8} = \qquad \frac{3}{6} = \qquad \frac{7}{9} = \qquad \frac{2}{5} =$$

4. Place the following fractions on the number line below: $\dfrac{1}{2} \quad \dfrac{3}{4} \quad \dfrac{3}{2} \quad \dfrac{7}{4}$

0   1   2

5. Add the fractions:

$$\frac{2}{8} + \frac{3}{8} = \qquad \frac{5}{12} + \frac{6}{12} = \qquad \frac{2}{3} + \frac{4}{9} =$$

6. Subtract the fractions:

$$\frac{5}{7} - \frac{2}{7} = \qquad \frac{14}{24} - \frac{6}{24} = \qquad \frac{12}{14} - \frac{3}{7} =$$

7. Multiply the fractions:

$$\frac{2}{3} \times \frac{3}{4} = \qquad \frac{4}{8} \times \frac{6}{8} = \qquad \frac{2}{7} \times \frac{4}{5} =$$

8. Divide the fractions:

$$\frac{2}{4} \div \frac{6}{9} =$$

$$\frac{5}{12} \div \frac{2}{3} =$$

$$\frac{7}{8} \div \frac{8}{9} =$$

9. Convert the improper fractions into whole or mixed numbers.

$$\frac{12}{4} =$$

$$\frac{18}{7} =$$

$$\frac{13}{2} =$$

$$\frac{7}{4} =$$

10. Convert the mixed numbers into improper fractions.

$$1\frac{2}{3} =$$

$$2\frac{3}{7} =$$

$$4\frac{5}{6} =$$

$$3\frac{4}{5} =$$

11. Convert the fractions to decimals.

$$\frac{4}{10} =$$

$$\frac{16}{100} =$$

$$\frac{5}{100} =$$

$$\frac{3}{4} =$$

$$\frac{1}{2} =$$

12. Convert the decimals to fractions.

.3 = _____   .40 = _____   .5 = _____   .02 = _____   .25 = _____

13. Compare the fractions below using >, < or =.

$$\frac{5}{8} \,\square\, \frac{2}{8} =$$

$$\frac{3}{6} \,\square\, \frac{1}{2} =$$

$$\frac{2}{3} \,\square\, \frac{7}{12} =$$

14. Draw a model to represent each fraction below:

$$\frac{5}{8} \qquad\qquad \frac{3}{6} \qquad\qquad \frac{2}{5}$$