Name _____   Date _____

1. Compare the pairs of fractions by reasoning about the size of the units. Use >, <, or =.

    a.   1 third _____ 1 sixth

    b.   2 halves _____ 2 thirds

    c.   2 fourths _____ 2 sixths

    d.   5 eighths _____ 5 tenths

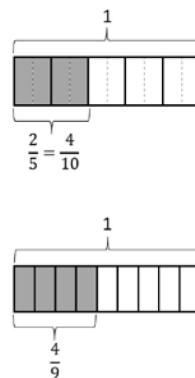2. Compare by reasoning about the following pairs of fractions with the same or related numerators.
    Use >, <, or =. Explain your thinking using words, pictures, or numbers. Problem 2(b) has been done for
    you.

    a. $\dfrac{3}{6}$ _____ $\dfrac{3}{7}$

    b. $\dfrac{2}{5} < \dfrac{4}{9}$

    because $\dfrac{2}{5} = \dfrac{4}{10}$

    4 tenths is less

    than 4 ninths because

    tenths are smaller than ninths.

    c. $\dfrac{3}{11}$ _____ $\dfrac{3}{13}$

    d. $\dfrac{5}{7}$ _____ $\dfrac{10}{13}$

3. Draw two tape diagrams to model each pair of the following fractions with related denominators.
    Use >, <, or = to compare.

    a. $\dfrac{3}{4}$ _____ $\dfrac{7}{12}$

    b. $\dfrac{2}{4}$ _____ $\dfrac{1}{8}$

    c. $1\dfrac{4}{10}$ _____ $1\dfrac{3}{5}$

4. Draw one number line to model each pair of fractions with related denominators. Use >, <, or = to compare.

a. $\frac{3}{4}$ _____ $\frac{5}{8}$

b. $\frac{11}{12}$ _____ $\frac{3}{4}$

c. $\frac{4}{5}$ _____ $\frac{7}{10}$

d. $\frac{8}{9}$ _____ $\frac{2}{3}$

5. Compare each pair of fractions using >, <, or =. Draw a model if you choose to.

a. $\frac{1}{7}$ _____ $\frac{2}{7}$

b. $\frac{5}{7}$ _____ $\frac{11}{14}$

c. $\frac{7}{10}$ _____ $\frac{3}{5}$

d. $\frac{2}{3}$ _____ $\frac{9}{15}$

e. $\frac{3}{4}$ _____ $\frac{9}{12}$

f. $\frac{5}{3}$ _____ $\frac{5}{2}$

g. $\frac{4}{3}$ _____ $1\frac{2}{9}$

h. $1\frac{1}{3}$ _____ $\frac{9}{7}$

6. Simon claims $\frac{4}{9}$ is greater than $\frac{1}{3}$. Ted thinks $\frac{4}{9}$ is less than $\frac{1}{3}$. Who is correct? Support your answer with a picture.

Answer Key

1. a. $>$

    b. $>$

    c. $>$

    d. $>$

2. a. $>$; explanations will vary.

    b. Answer provided.

    c. $>$; explanations will vary.

    d. $<$; explanations will vary.

3. a. Tape diagrams model $\frac{3}{4} > \frac{7}{12}$

    b. Tape diagrams model $\frac{2}{4} > \frac{1}{8}$

    c. Tape diagrams model $1\frac{4}{10} < 1\frac{3}{5}$

4. a. Number line models fractions; $>$

    b. Number line models fractions; $>$

    c. Number line models fractions; $>$

    d. Number line models fractions; $>$

5. a. $<$

    b. $<$

    c. $>$

    d. $>$

    e. $=$

    f. $<$

    g. $>$

    h. $>$

6. Simon; picture supports answer