

**Comparing and Ordering Rational Numbers**

Name \_\_\_\_\_

Fill in each blank with  $<$ ,  $>$ , or  $=$  to make each sentence true. Write the decimal notation beneath each fraction to check your answer.

Example:  $\frac{1}{2} > \frac{1}{3}$   
 $0.5 > 0.333$

On your graphing calculator, Type 1, press the a/b/c button (this is the fraction bar), type 2 Press EXE to enter the fraction, press F  $\longleftrightarrow$  D (this converts the fraction to a decimal and vice versa). Repeat this for the fraction  $1/3$ .

1.  $\frac{2}{3}$  \_\_\_  $\frac{5}{8}$

2.  $\frac{3}{4}$  \_\_\_  $\frac{5}{7}$

3.  $\frac{4}{15}$  \_\_\_  $\frac{5}{19}$

4.  $\frac{3}{14}$  \_\_\_  $\frac{15}{70}$

5.  $\frac{14}{5}$  \_\_\_  $\frac{30}{13}$

6.  $\frac{3}{5}$  \_\_\_  $\frac{7}{8}$

7.  $\frac{7}{10}$  \_\_\_  $\frac{15}{19}$

8.  $\frac{5}{12}$  \_\_\_  $\frac{3}{16}$

9.  $\frac{5}{2}$  \_\_\_  $\frac{10}{4}$

10.  $\frac{4}{13}$  \_\_\_  $\frac{3}{9}$

11.  $\frac{7}{9}$  \_\_\_  $\frac{5}{7}$

12.  $\frac{9}{7}$  \_\_\_  $\frac{7}{4}$

Write the fractions in order from least to greatest. Write the decimal notation beneath each fraction as you did in problems 1 - 12.

13.  $\frac{3}{8}$   $\frac{1}{4}$   $\frac{7}{8}$

14.  $\frac{16}{19}$   $\frac{17}{20}$   $\frac{18}{21}$

15.  $\frac{3}{5}$   $\frac{18}{29}$   $\frac{24}{39}$