

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

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