

Review: 1) simplify: $\frac{12}{20}$ $\frac{16}{64}$

2) change to a decimal: $\frac{13}{40}$

3) change to a fraction: 9.625

Sec. 4.3 - Comparing & Ordering Rational Numbers

Compare each fraction finding a common denominator $>$ $<$

Steps:

- 1) Find a common denominator
- 2) Write equivalent fraction using common denominator.
- 3) Compare the new numerators.

1) $\frac{4}{4} \cdot \frac{4}{9} > \frac{5}{12} \cdot \frac{3}{3}$

$\frac{16}{36} > \frac{15}{36}$

Common Denominator

2) $\frac{3}{3} \cdot \frac{7}{8} > \frac{5}{6} \cdot \frac{4}{4}$

$\frac{21}{24} > \frac{20}{24}$

3) $\frac{7}{18} \underline{\hspace{1cm}} \frac{5}{12}$

Compare each fraction using a decimal

< >

1) $\frac{37}{58} > \frac{45}{71}$

$0.638 > 0.634$

2) $\frac{3}{4} > \frac{17}{23}$

$0.75 > 0.74$

3) $\frac{5}{7} \quad \frac{14}{19}$

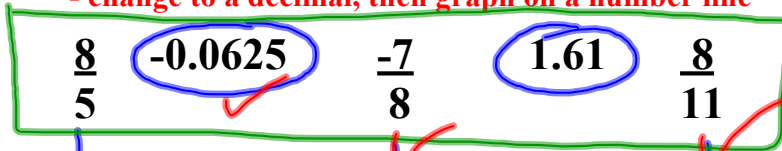
Steps:

1) Change each fraction to a decimal.

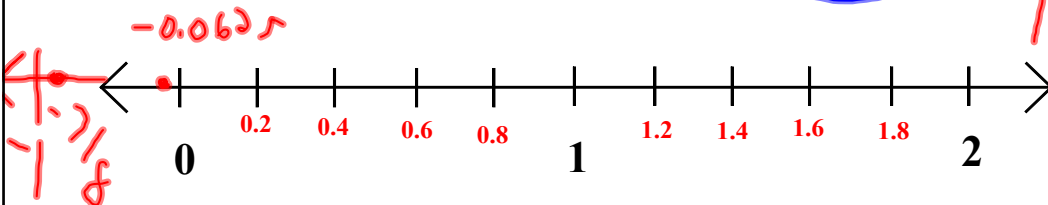
2) Compare the decimals.

least \rightarrow greatest Ordering Rational Numbers

- change to a decimal, then graph on a number line



$-\frac{7}{8}$ or -0.875
 -0.0625
 $\frac{8}{11}$ or 0.72
 $\frac{8}{5}$ or 1.6
 1.61



Homework:

**p.198, # 2-30, even,
34, 36, 50-53 *all***

**--Show common denominators
on # 2-20 even , 22-26 even**

**--Show either decimals or common
denominators on #18,20**