

Unit 2: Working With Rational Numbers

2.1 Comparing & Ordering Rationals

Recall...

Rational:

❖ How to write a negative rational

❖ Opposite numbers

Ex. State the opposite of each value:

-5

1

$\frac{3}{4}$

❖ Fraction to decimal form – divide

Ex. Write each rational in decimal form:

$\frac{3}{4}$

$\frac{-2}{3}$

$\frac{5}{16}$

❖ Decimal (terminating) to fraction – place digits of the number (without a decimal point) over the the power of 10 corresponding to the position of the last digit

Ex. Write each decimal in fraction form:

-0.4

3.05

-0.002

Ex. Order the following numbers:

$$-1.2, \frac{4}{5}, \frac{7}{8}, -0.\bar{5}, -\frac{7}{8}, \frac{-11}{20}$$

Ascending Order:

Descending Order:

Ex. Which is greater? $-\frac{3}{4}$ or $\frac{-2}{3}$

Method 1 – Common denominators

Method 2 – Decimal comparison

Ex. Identify a fraction between -0.6 and -0.7

Method 1 – choose a decimal and convert

Method 2 – convert bounds and choose a fraction