Order Decimals

Let's put decimals in order.

Warm-up

True or False: Decimal Inequalities

Decide if each statement is true or false. Be prepared to explain your reasoning.

- $0.909 > 0.91$

- $4.1 < 4.100$

- $0.99 < 0.999$

Caught in the Middle

1. Fill in the blank to make each statement true. Use the number lines if they are helpful.

    a. $786.2 <$ _____ < 786.3

    b. $9.99 <$ _____ < 10

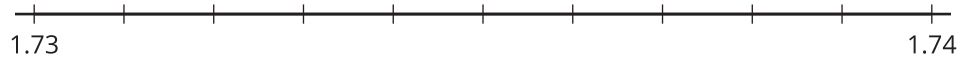   c. $0.46 >$ _____ > 0.45

    d. $0.5 <$ _____ < 0.51

    e. $0.99 <$ _____ < 0.999

2. Kiran says that there is no number between 1.731 and 1.732. Do you agree? Use the number line if it is helpful.

$$\overset{\displaystyle\underset{1.73}{|}}{|}\kern0.8em|\kern0.8em|\kern0.8em|\kern0.8em|\kern0.8em|\kern0.8em|\kern0.8em|\kern0.8em|\kern0.8em\overset{\displaystyle\underset{1.74}{|}}{|}$$

Least to Greatest

Write each set of numbers in order from least to greatest.

1. 67.020, 67.200, 67.002

2. 1.101, 1.02, 1.1

3. 0.333, 0.323, 0.3

4. 99.99, 99.09, 99.091