Lesson 9: Order Decimals

- Let's put decimals in order.

Warm-up: True or False: Decimal Inequalities

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

- $0.909 > 0.91$

- $4.1 < 4.100$

- $0.99 < 0.999$

9.1: Caught in the Middle

1. Fill in the blank to make each statement true. Be prepared to explain your reasoning. 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 with Kiran? Use the number line if it is helpful.

9.2: Least to Greatest

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

   a. 67.020, 67.200, 67.002

   b. 1.101, 1.02, 1.1

   c. 0.333, 0.323, 0.3

   d. 99.99, 99.09, 99.091