Unit 4, Lesson 2

Equivalent Decimals

Let's think about equivalent decimals.

Warm-up

True or False: Equivalent Fractions

Decide whether each statement is true or false. Explain your reasoning.

- $\frac{50}{100} = \frac{5}{10}$

- $\frac{20}{10} = \frac{20}{100}$

- $2 = 1 + \frac{90}{100}$

- $3\frac{1}{10} = \frac{31}{10}$

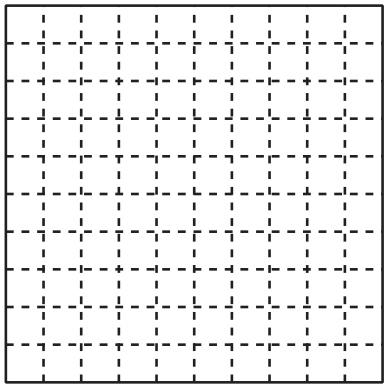
Activity 1

Card Sort: Diagrams of Fractions and Decimals

Your teacher will give you a set of cards. Each large square on the cards represents 1.

1. Sort the cards into groups so that the representations in each group have the same value. Be ready to explain your reasoning.
2. One of the diagrams has no matching number card. What number does it represent? Write that number as a fraction and in decimal notation.

3. Are 0.20 and 0.2 equivalent? Use fractions and a diagram to explain your reasoning.



Activity 2

True or Not True?

1. Decide whether each statement is true or false. For each statement that is false, replace one of the numbers to make it true. A different number should be shown on either side of the equal sign.

   a. $\frac{50}{100} = 0.50$

   b. $0.05 = 0.5$

   c. $0.3 = \frac{3}{10}$

   d. $0.3 = \frac{30}{100}$

   e. $0.3 = 0.30$

   f. $1.1 = 1.10$

   g. $3.06 = 3.60$

   h. $2.70 = 0.27$

2. Jada says if you locate the numbers 0.05, 0.5, and 0.50 on the number line, you should have only 2 points. Do you agree? Explain your reasoning.