Unit 3e-Understand and Compare Decimals

Content Area: **Math**
Course(s): **Math 4**
Time Period: **Marking Period 3**
Length: **MP3 Topic 12 12-1 to 12-6**
Status: **Published**

Essential Questions

- How can you write a fraction as a decimal?
- How can you locate points on a number line?
- How do you compare decimals?

Big Ideas

- **Fractions and Decimals:** Students will develop conceptual understanding of decimals and learn how to use decimal notation. Students will learn the relationship between fractions and decimals. This understanding is used as students learn to compare decimals and solve decimal problems. Students will gain a deeper understanding of decimals by realizing the size of a decimal depends on the size of the whole.
- **Compare Decimals:** Students draw on their understanding of decimals to develop understanding and procedural skill in comparing decimals.
- **Money and Decimals:** The connection between money and decimals is introduced. Students use this understanding to solve problems involving money.

Diversity Integration

Objective: Students will be able to compare decimals within different elevations in various countries.

Description of Activity: Students will be given a list of five countries and their highest point of elevation. They must compare the elevations and list them in order from greatest to least.

CSDT Technology Integration

8.2.5.ED.3: Follow step by step directions to assemble a product or solve a problem, using appropriate tools to accomplish the task.

Activity:

Students will apply knowledge of skills taught in class during the mini lesson to an online assessment through the Pearson EnVisions website. Each student has a login and password, and the teacher will assign a "Quick Check" that utilizes standardized testing like tools.

Enduring Understandings

Number and Operations—Fractions

4.NF.C.5 [M] Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100.

4.NF.C.6 [M] Use decimal notation for fractions with denominators 10 or 100.

4.NF.C.7 [M] Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols >, =, or <, and justify the conclusions, e.g., by using a visual model.

Measurement and Data

4.MD.A.2 Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.

Mathematical Practices Focus

7. Look for and make use of structure.