

Application of Rounding

Lesson Summary

Students when given a number will round decimals to the nearest whole number, tenth, or hundredth.

Major Topic and SOL

Math SOL (2009) 5.1

Length of Unit

1 Hour

Student Objectives

In Mathematics students will be able to:

- round a decimal to the nearest whole number, tenth, or hundredth

In Language students will be able to:

- use key vocabulary when rounding numbers

21st Century Skills

- Critical-thinking and Problem Solving
- Communication
- Creativity and Innovation
- Collaboration

Assessment Evidence

- To check understanding, the teacher will use informal assessment. The teacher will continue with problems from the website. While working on the problems the teacher will call on students that need extra attention to see if they fully understood the concept of rounding decimals.

Supplies/Materials/Technology

- **Teacher Materials:**
 - Magnetic Numbers
 - Computer
 - list of decimals to round
 - number line kit
- **Student Materials:**
 - Paper
 - Pencils

Lesson Plan

Motivation & Building Background:

- **Background:** Students have been exposed to place value and rounding in fourth grade. After a quick review and oral assessment, students have an understanding of rounding whole numbers. Most students know how to round decimals. A few have the knowledge but are unsure of themselves. The rest need more help to acquire rounding of decimals.
- **Motivation:** The teacher will use the website <http://www.aaamath.com/dec.htm> on the Promethean board to open class session on rounding decimals. The teacher will work a few examples from the website to get students talking and making decisions on rounding decimals as a group. Next, divide students into three groups, explaining that each group will work together to complete the work.

Presentation:

- The teacher will go over round of numbers:
 - 1st digit to right of decimal point is tenths
 - 2nd digit to right of decimal point is hundredths
 - 3rd digit to right of decimal point is thousandths

Practice/Application:

- Group 1 consisted of 8 students that understood rounding and could work as a group on their own. They continued with the Website used earlier in the lesson. One student was assigned to work computer and students responded with answers.
- Group 2 consisted of 6 students and (1) helper that understood rounding. Using the magnetic numbers on the board, the helper put the following numbers to be rounded (round to nearest whole number- 5.92, 52.2, 1.35. round to the nearest tenths- 4.14, 13.81, 312.761, round to the nearest hundredths- 8.563, 7.857, 43.582). The helper would do one at a time, allowing different students to complete the rounding, correcting where needed.
- Group 3 consisted of 4 students that I worked with because they needed a little more attention with rounding. I used a number line kit to practice rounding of decimals. We rounded the following numbers (nearest whole number-6.15, 12.7, 88.7, nearest tenths – 5. 43, 59.37, 42.56, nearest hundredths – 1.242, 19.376, 68.225).
- When groups 2 & 3 were finished, the teacher will pull all 3 groups back together as a large group.