Eureka Math

4th Grade
Module 1
Lesson 9

At the request of elementary teachers, a team of Bethel & Sumner educators met as a committee to create Eureka slideshow presentations. These presentations are not meant as a script, nor are they required to be used. Please customize as needed. Thank you to the many educators who contributed to this project!

Directions for customizing presentations are available on the next slide.

Icons

Read, Draw, Write

Learning Target

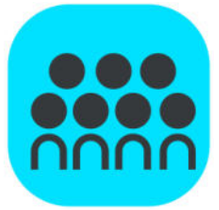
Personal White Board

Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

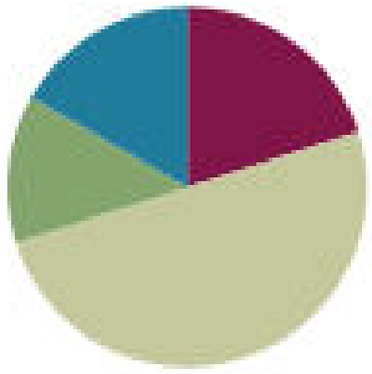
Small Group Time

Lesson 9

Objective: Use place value understanding to round multi-digit numbers to any place value.

Suggested Lesson Structure

Fluency Practice	(12 minutes)
Application Problem	(8 minutes)
Concept Development	(30 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**



I can use place value understanding to round multi-digit numbers to any place value.

Multiply by 10

10 x 10=_____

___ten x ___ten=100

ten x ten= hundred

Round to different place values

63,941: say it

Round 63,941 to the nearest ten thousand.

Show this on a vertical number line

Application Problem

34,123 people attended a basketball game. 28,310 people attended a football game. About how many more people attended the basketball game than the football game? Round to the nearest ten thousand to find the answer. Does your answer make sense? What might be a better way to compare attendance.

Nearest 1,000 w/o number line

4,333 is about_____

- We are going to round to the nearest thousand. We need to ask ourselves which two thousands is 4,333 between?
- Let's think of the halfway point. Is 4,333 less than or more than the halfway?
- Since it is less than the halfway, we round 4,333 to 4,000

18,753 is about_____

- Round 18,753 to the nearest thousand.
- What two thousands is 18,753 between?
- What is halfway between 18,000 and 19,000?
- Since it is more than the halfway, we round 18,753 to 19,000.

Rounding to nearest Ten/Hundred thousand w/o number line

65,600 is about _____

- Round 65, 600 to the nearest ten thousand.
- Between what two ten thousands is 65,600?
- What is the halfway between 60,000 and 70,000?
- Is 65,600 more or less than 65,000?
- What would you round 65,600 to? Explain why.

Rounding to nearest Ten/Hundred thousand w/o number line

548,253 is about_____

- Round 548,253 to the nearest ten thousand.
- Between what two ten thousands is 548,253?
- What is halfway between 540,000 and 550,000?
- Is 548,253 more or less than 545,000?
- What would you round 548,253 to? Explain why.

Rounding to nearest Ten/Hundred thousand w/o number line

676,000 is about_____

- Round 676,000 to the nearest hundred thousand.
- Between what two hundred thousands is 676,000?
- What is halfway between 600,000 and 700,000?
- Is 676,000 more or less than 650,000?
- What would you round 676,000 to? Explain why.

Rounding to nearest Ten/Hundred thousand w/o number line

203,302 is about_____

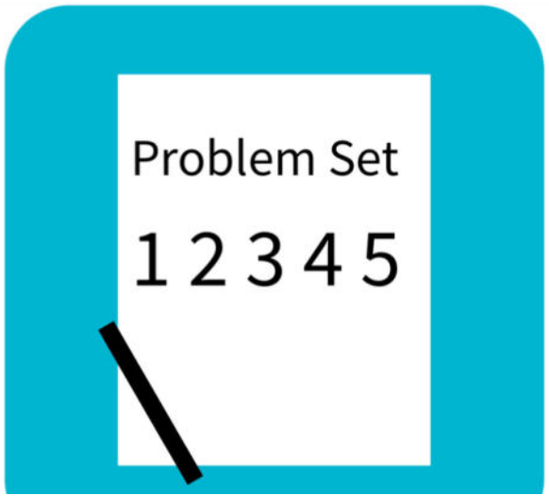
- Round 203,302 to the nearest hundred thousand.
- Between what two hundred thousands is 203,302?
- What is halfway between 200,000 and 300,000?
- Is 203,302 more or less than 250,000?
- What would you round 203,302 to? Explain why.

Round to any place value

- 147,591, whisper read this number to your partner in standard form.
  - Now round the nearest hundred thousand.
- Could I round this a different way to get a more ACCURATE estimate?

Round to any place value

- Now, with a partner, round 147,591 to the nearest thousand, hundred, and tens.



Problem Set

Name _____ Date _____

1. Round to the nearest thousand.

   a. 5,300 ≈ _____

   b. 4,589 ≈ _____

   c. 42,099 ≈ _____

   d. 801,504 ≈ _____

   e. Explain how you found your answer for Part (d).

Debrief

- Explain the reasoning behind your answer for problem 2(e) and problem 3(e).
- In problem 2(e), you and your partner probably wrote different numbers that rounded to 30,000. Explain why your numbers were different. What is the smallest possible number that could round to 30,000 when rounded the nearest ten thousand?
- Was there any difficulty in solving problem 3(d)? Explain your strategy when solving this problem.
- In problem 4(b), the newspaper rounded to the nearest hundred thousand inappropriately. What unit should the newspaper have rounded to and why?

Exit Ticket

Name _____ Date _____

1. Round 765,903 to the given place value:

   Thousand _____

   Ten thousand _____

   Hundred thousand _____

2. There are 16,850 Star coffee shops around the world. Round the number of shops to the nearest thousand and ten thousand. Which answer is more accurate? Explain your thinking using pictures, numbers, or words.