Eureka Math

4th Grade
Module 1
Lesson 8

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

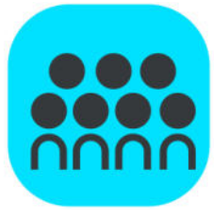
Personal White Board

Problem Set

Manipulatives Needed

Fluency

Think Pair Share



Whole Class

Individual

Partner

Small Group

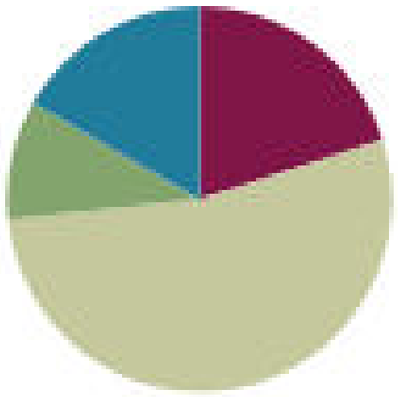
Small Group Time

Lesson 8

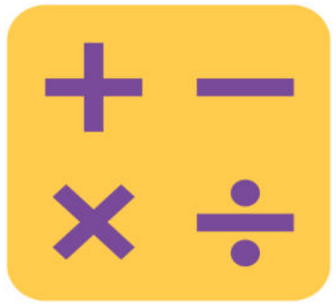
Objectives: Round multi-digit numbers to any place using the vertical number line.

Suggested Lesson Structure

Fluency Practice	(12 minutes)
Application Problem	(6 minutes)
Concept Development	(32 minutes)
Student Debrief	(10 minutes)
Total Time	**(60 minutes)**



I can round multi-digit numbers to any place value using a vertical number line.



Sprint: Midway point

Follow sprint protocol.

Rename Units

Say the number, 357,468

_____thousands 468 ones

Say the number 357,468

_____ ten thousands 7,468 ones

Say the number 357,468

____hundreds 6 tens 8 ones

Say the number 357,468

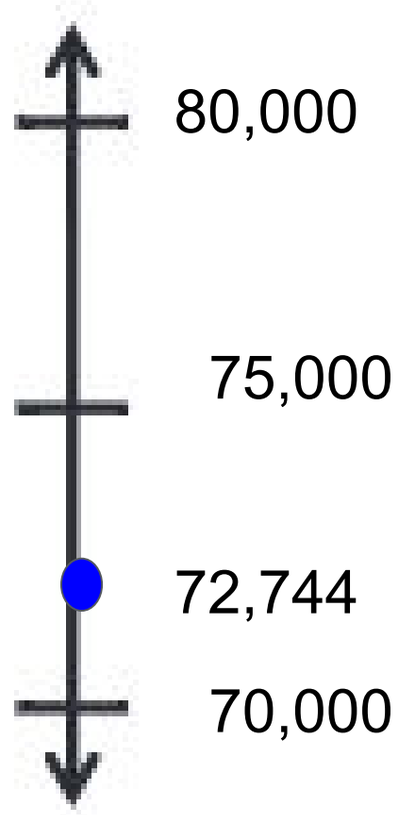
_____ tens 8 ones

Application Problem

Jose's parents bought a used car, a new motorcycle, and a snowmobile. The car costs $8,999. The motorcycle cost $9,690. The snowmobile cost $4,419. ABOUT how much money did they spend on the three items?

Rounding to ten thousand

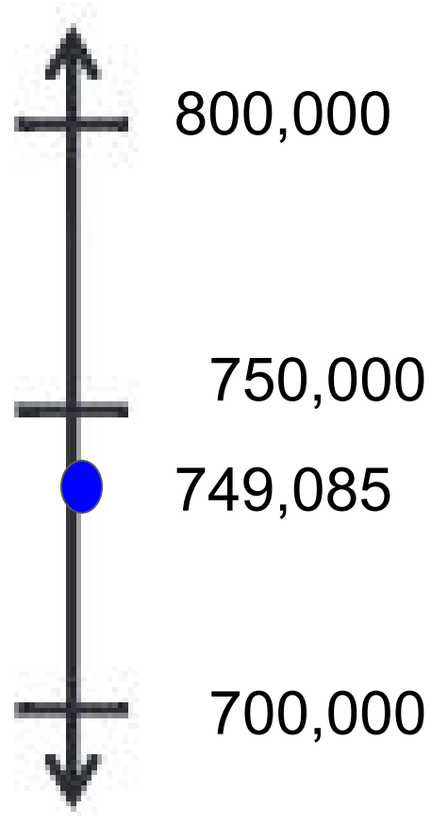
- We are going to round 72,744 to the nearest ten thousand
- How many ten thousands?
- Mark your lower endmark 70,000
- What is 10,000 more?
- Mark the upper endmark 80,000.
- What is the midway point?
- We will mark the midway 75,000
- Place 72,744 on the number line.
- Is 72,744 closer to 70,000 or 80,000



- Therefore, 72,744 round to the nearest ten thousand is 70,000.

Rounding to hundred thousand

- We are going to round 749,085 to the nearest hundred thousand
- How many hundred thousands?
- Mark your lower endmark 700,000
- What is 100,000 more?
- Mark the upper endmark 800,000.
- What is the midway point?
- We will mark the midway 750,000
- Place 749,085 on the number line.
- Is 749,085 closer to 700,000 or 800,000

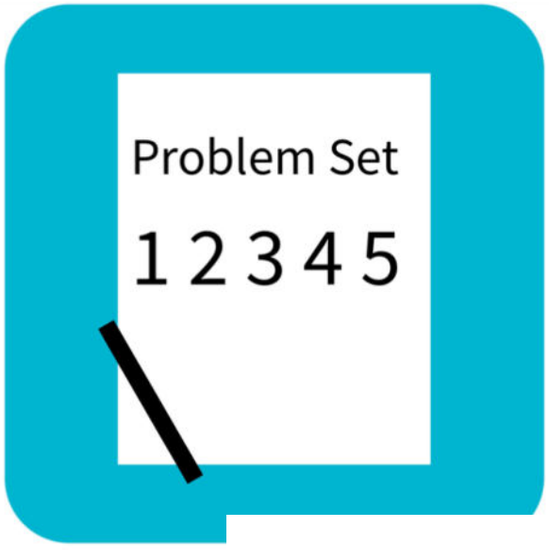


- Therefore, 749,085 round to the nearest hundred thousand is 700,000.

Estimating

- 505,341 + 193,841
- Without finding the EXACT answer, I can estimate the answer by rounding first.
- Use a number line to round both numbers to the nearest hundred thousand.
- What is 505,341 rounded to?
- What is 193,841 rounded to?
- When we rounded we add those two NEW numbers.

500,000+200,000= 700,000



Problem Set

Name _____ Date _____

Complete each statement by rounding the number to the given place value. Use the number line to show your work.

1. a. 53,000 rounded to the nearest ten thousand is _____.

2. a. 240,000 rounded to the nearest hundred thousand is _____.

Debrief

- Compare problems 1(b) and 1(c). How did you determine your endpoints?
- Tell your partner your steps for rounding a number. Which step is the most difficult for you?
- Look at problem 5. How did your estimates compare? What did you notice as you solved?
- What are the benefits and drawbacks of rounding the same number to different units?
- In what real life situation might you make an estimate like problem 5?

Exit Ticket

Name _____ Date _____

1. Round to the nearest ten thousand. Use the number line to model your thinking.

a. 35,124 ≈ _____

b. 981,657 ≈ _____