Unit 4, Lesson 16

Round Numbers

Let's round some large numbers.

Warm-up

Number Talk: Missing Numbers

Find the value that makes each equation true mentally.

- $421 + _____ = 500$
- $421 + _____ = 1{,}000$
- $6{,}421 + _____ = 7{,}000$
- $6{,}421 + _____ = 10{,}000$

Activity 1

Round to What?

Noah says that 489,231 can be rounded to 500,000.

Priya says that it can be rounded to 490,000.

1. Explain or show why both Noah and Priya are correct. Use a number line if it helps.

2. Describe all the numbers that round to 500,000 when rounded to the nearest hundred thousand.

3. Describe all the numbers that round to 490,000 when rounded to the nearest ten thousand.

4. Name 2 other numbers that can also be rounded to both 500,000 and 490,000.

Activity 2

Some Numbers to Round

Your teacher will show you 6 numbers. Choose at least 3 numbers and round each to the nearest hundred thousand, ten thousand, thousand, and hundred.

Record your work in the table. Use a number line if it is helpful.

round to the nearest . . .	100,000	10,000	1,000	100
53,487				
4,896				
370,130				
96,500				
985,411				
7,150				

Activity 3

Rounded Populations

The table shows the estimated populations of two cities in the States—based on surveys in 2018.

city	population	rounded to the nearest 1,000,000	rounded to the nearest 100,000	rounded to the nearest 10,000
Austin, TX	964,254			960,000
Lincoln, NE	287,401			
		1,000,000		900,000
		1,000,000	900,000	
		0	500,000	

Here are 3 other cities and their estimated populations.

- Charlotte, NC: 872,498
- Jacksonville, FL: 903,889
- Virginia Beach, VA: 450,189

1. Match each of the 3 cities with the rounded population in the table.
2. The table shows 3 ways of rounding large numbers.
   a. Which ways of rounding are more helpful in finding how many people are in each of these cities?

   b. Which ways of rounding are more helpful in comparing or ordering the populations by size? Less helpful?