## Understanding Place Value



### 1-1 Numbers through one million

I can... Read numbers through one million, AND write them in expanded form and number names

Place value tells the value of a single digit in a larger number



#### 1-1 Numbers through one million (1,000,000)

Each **period** of a place value chart has **3** places



### 1-1 Numbers through one million (1,000,000)



300,000 + 20,000 + 7,000 + 600 + 80 + 7

# Expanded form shows the value of each digit in a number

Can you write the number shown in expanded form above? Try it!

### 1-1 Numbers through one million (1,000,000)



### 1-2 Place Value Relationships

I can... recognize that a digit in one place has 10 times the value of a digit to its right.

In the number 440, the 4 in the hundreds place is 10 times greater than the 4 in the tens

4 hundreds = 400 4 tens = 40 400 is 10 times greater than 40



### **1-3 Compare Whole Numbers**

#### I can... use place value to compare whole numbers and by using the symbols >, <, =

Step 1	2 Step 2	3 Step 3
Write the numbers, lining up places. Begin at the left and compare.	Look at the next digit, compare the hundreds.	The first place where the digits are different is the tens place. Compare the tens.
6,356 6,378	6,356 6,378	6,3565 tens < 7 tens,6,378so 6,356 < 6,378.
The thousands digit is the same in both numbers.	The hundreds digit is also the same in both numbers.	The North Pole is closer than the equator to Earth's center.

## 1-4 ROUND Whole Numbers

#### I can... use place value to round whole numbers.



## 1-5 Construct Arguments

## I can...construct arguments using what I know about place value relationships.

#### <u> Conjecture</u> -

is a statement that is believed to be true, but has not been proven. You can **construct an argument** to support or oppose a conjecture. A **conjecture** is a statement that is thought to be true but has not yet been proven.

When you construct an argument, give a clear and complete explanation, and use numbers, objects, drawings, or actions to justify your argument.

The land area of Texas is two hundred sixty-one thousand, two hundred thirty-two square miles. The number is written as 261,332. Construct a math argument that explains if the number is written correctly.

Sample answer: The number is written incorrectly.

The digit in the hundreds place should be a 2;

261,232.