Number and Number Sense Unit 1

SOL 4.1

Vocabulary:

Place Value : the value of each digit; depends upon the position of the digit in the number

Whole Numbers may be written in a variety of formats:

- **Standard:** 1,234,567

- **Written:** one million, two hundred thirty-four thousand, five hundred sixty-seven

- **Expanded:** $(1 \times 1,00,000) + (2 \times 100,000) + (3 \times 10,000) + (4 \times 1,000) + (5 \times 100) + (6 \times 10) + (7 \times 1)$

Periods: group of three digits separated by commas in a multi-digit number; commas are used to separate the periods

Greater than, less than, or equal to : terms used to compare two numbers (<, >, =)

Rounding: a method used to approximate numbers; involves either increasing or decreasing a number to the next digit.

Examples

Place Value

195,782,364

- Ones
- Tens
- Hundreds
- One thousands
- Ten thousands
- Hundred thousands
- One millions
- Ten millions
- Hundred millions
- And so on.

greater than | less than | equal

4, 8 4 3
4, 4 5 6

8 hundreds > 4 hundreds

So, 4,843 > 4,456

Standard Form	Expanded Form	Written Form
425	400 + 20 + 5	four hundred twenty-five

Math A Tube MathATube.com

Examples

Rounding

Round Off Whole Numbers

Remember

Round 23 to the nearest *tens*.

Step 1. <u>Underline</u> the digit in the given place. *(tens)*

23

Step 2. *Circle* the number to its right.

23

Step 3. (a) 3 is less than 5 so the digit in the given place (tens) remains the same.

23

Step 4. *Replace* all digits to the right of the given place with zeros.

20

23, rounded to the nearest ten is 20

$7{,}891 \rightarrow 7{,}900$
$15{,}753 \rightarrow 15{,}800$
$99{,}961 \rightarrow 100{,}000$
$3{,}350 \rightarrow 3{,}300$
$450 \rightarrow 500$

wikiHow

Rounding Whole Numbers

5 or more, let it soar.

4 or less, let it rest.

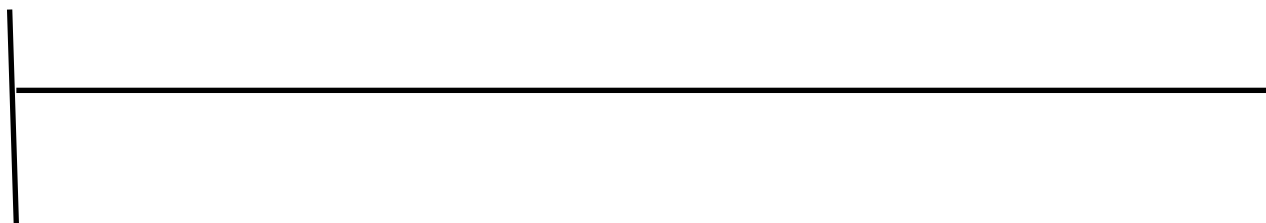4, 367, 000   ?   4, 368, 000

Use a number line to determine the rounded number.
Round 4, 367, 925 to the nearest thousand,
identify the 'thousands ' the number
would fall between on the number
line, then determine the thousand
that the number is closest to.

Rounding Whole Numbers

5 or more,
let it soar.

4 or less,
let it rest.