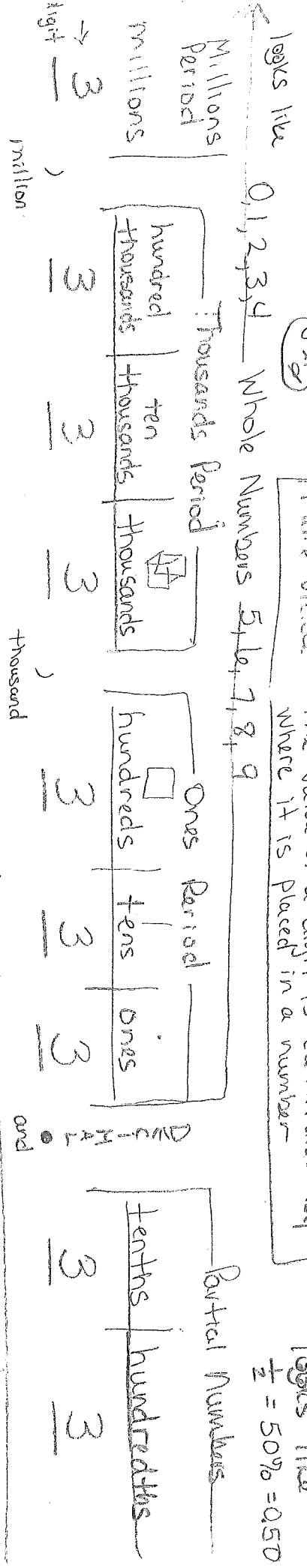


Place value - the value of a digit is determined by where it is placed in a number

looks like $\frac{1}{2} = 50\% = 0.50$



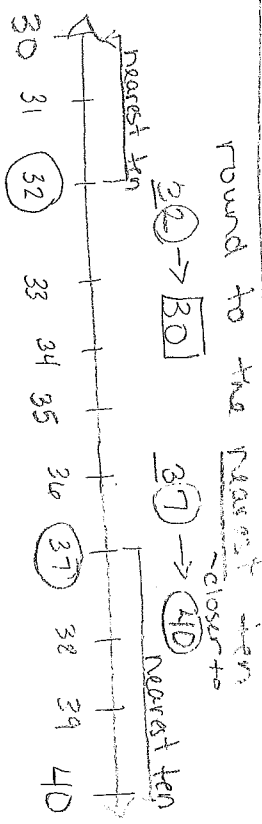
Number Words

1 one	11 eleven	10 ten
2 two	12 twelve	20 twenty
3 three	13 thirteen	30 thirty
4 four	14 fourteen	40 forty
5 five	15 fifteen	50 fifty
6 six	16 sixteen	60 sixty
7 seven	17 seventeen	70 seventy
8 eight	18 eighteen	80 eighty
9 nine	19 nineteen	90 ninety

Rounding

Why to estimate to find about how many or how much

rounded numbers are faster to work with



Whole numbers

- in the ones place
- in the hundreds place
- in the tens place
- in the ten-thousands place
- in the thousands place

Standards and Mathematical Practices

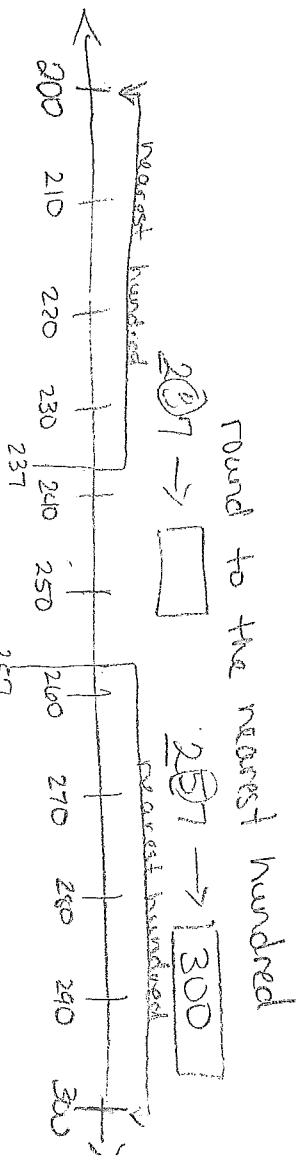
We will continue to use place value understanding, and model with mathematics to read and write numbers to the thousands.

We will use place value understanding to round whole numbers to the nearest 10 or 100 by looking for and making use of structure.

We will attend to precision when we fluently add and subtract

What we know about place value

Inquiring what we want to learn about place value ...



UNIT PLANNING TOOL

Unit Place Value

CCSSM: 3.NBT.1 - Use place value understanding to round whole numbers to the nearest 10 or 100.

2.NBT.2 - Fluently add and subtract within 1,000 using strategies and algorithms based on place value, properties of operations, and/or relationships between addition and subtraction

Math Practices being emphasized:

- Ⓐ Model with mathematics
- Ⓒ attend to precision
- Ⓓ look for and make use of structure

Essential Questions

Why is place value important?
 How are addition and subtraction related?
 How can we effectively estimate numbers?

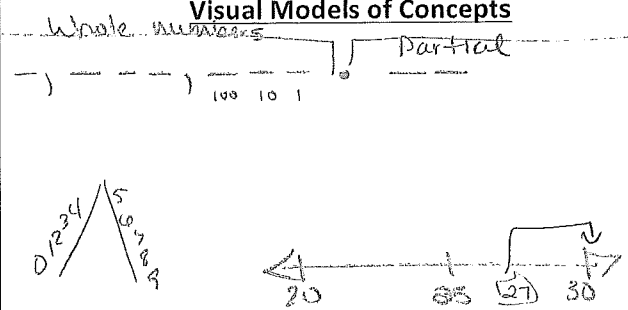
Pre and Post Assessments

Stepping stones or teacher generated

Key Concepts

The value of a digit in a number
 Whole numbers / partial numbers
 rounding using a number line
 rounding why and where the split is

Visual Models of Concepts



Algorithms/Diagrams

— in the — place
 — in the — place
 — — — — —

Connections (Real World Applications)

Place Value gives value to how we count, + measure things like money \$1 vs \$10
 - Estimating (rounding)

Identify:

Language Functions/Structures

The value of the _____ digit in _____ is _____.

The digit _____ is in the _____ place.

Compare:

The number _____ will round to _____, but the number _____ will round to _____ because _____.

ones	place value
tens	digit
hundreds	millions
thousands	whole numbers

Vocabulary

partial numbers
operations
round
estimate

nearest 10
nearest 100

A million Fish, more or less
by Pat McKissack

Focus and Motivation

Animation

Bram pop Jr.
• rounding

Activity

I have, who has

Sir Cumference and All the
Kings Tens
by Cindy Neuschwander

Study Jams
• Place Value