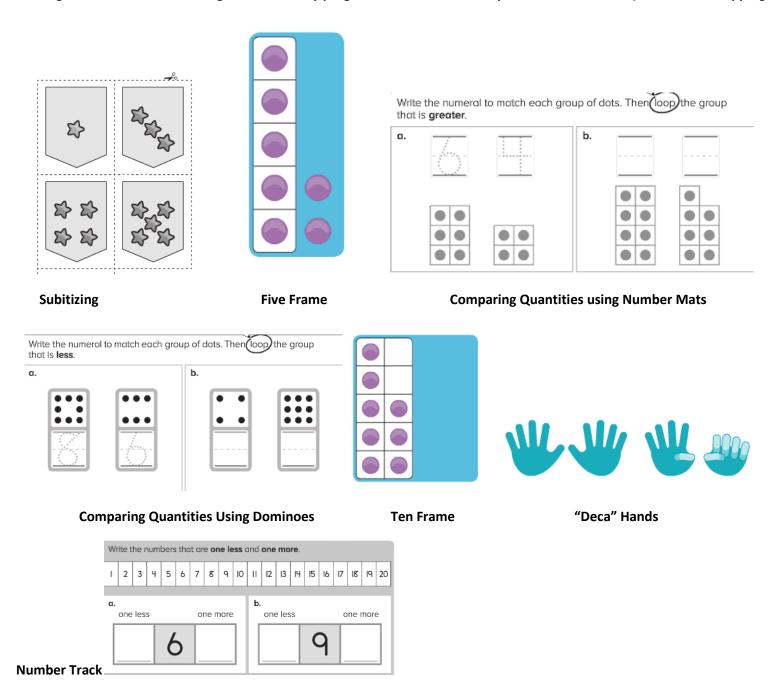
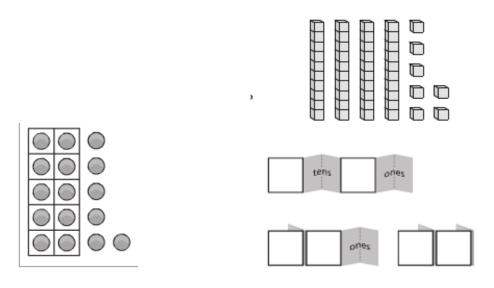
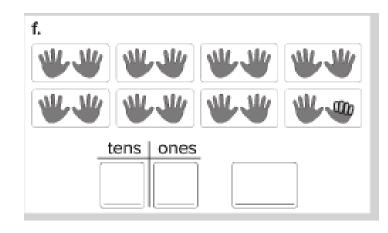
Kindergarten Models for Counting and Cardinality progresses to Number and Operations in Base Ten (from ORIGO Stepping Stones)



First Grade Models for Number and Operations in Base Ten (from ORIGO Stepping Stones)

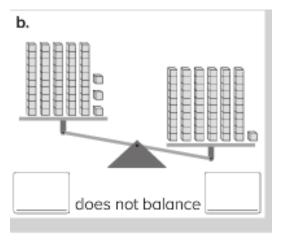


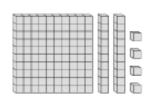


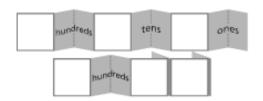
Ten Frames

Base Ten Blocks and Numeral Expanders

Deca Hands Showing Tens and Ones





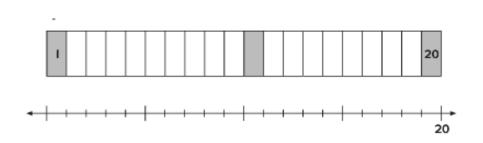


Base Ten Blocks and Balance to Compare

Hundred Chart

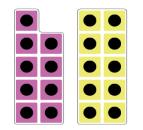
Base Ten Blocks and Numeral Expanders

Second Grade Models for Number and Operations in Base Ten (from ORIGO Stepping Stones)



Transition from the Number Track to the Number Line

Compare Quantities "Less distance from to 0" "Greater distance from 0"





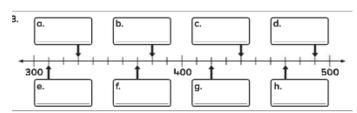


0

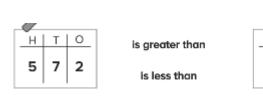
9

8

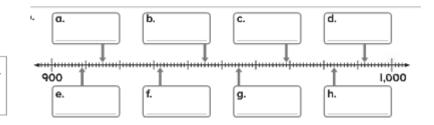
Base Ten Blocks and Numeral Expanders



Number line for Relative Position of 3-digit Numbers



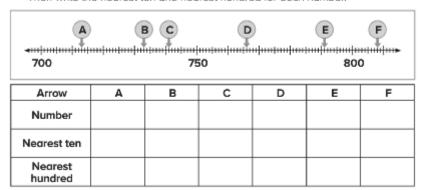
Place Value Table



Number line for Relative Position to 1,000

Third Grade Models for Number and Operations in Base Ten (from ORIGO Stepping Stones)

For each arrow on the number line, write the number in the table. Then write the nearest ten and nearest hundred for each number.



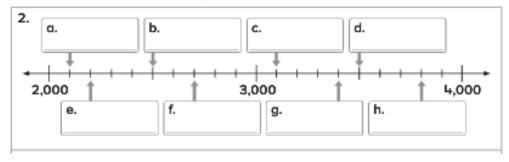
2. Look at the blocks. Write the matching number on the expander.



Number line for Rounding

Base Ten Blocks and Numeral Expander

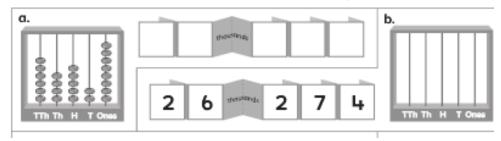
Write the number that is shown by each arrow.



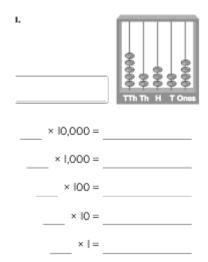
Locating Numbers in the Thousands on the Number Line

Fourth Grade Models for Number and Operations in Base Ten -(from ORIGO Stepping Stones)

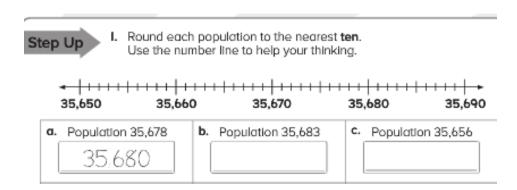
2. Draw beads or write numbers to complete the missing parts.



Base Ten Blocks and Numeral Expanders

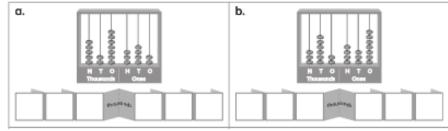


Abacus



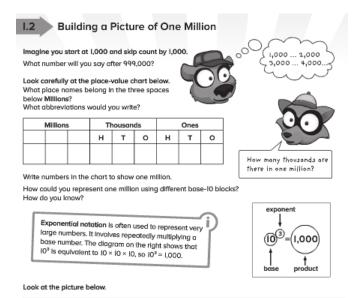
Number line for Rounding

2. Look at the abacus. Write the matching number on the expander.



Abacus and Numeral Expander

Fifth Grade Models for Number and Operations in Base Ten (Including Operations with Decimal Fractions) (from ORIGO Stepping Stones)



10²

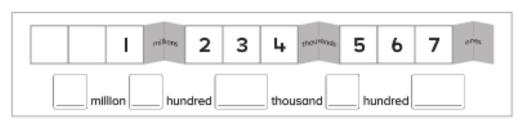
100

 (10×10)

10

10

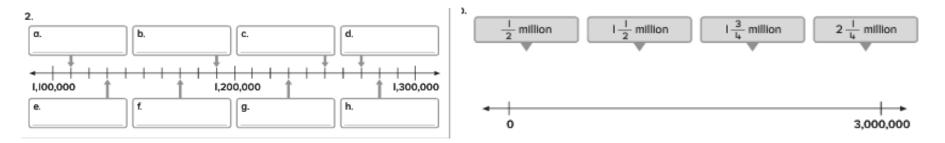
Complete the number name below to show how you would read the number on this expander.



Base Ten Blocks, Place Value Table and Exponents

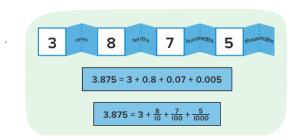
1,000 (10 × 10 × 10)

Numeral Expander

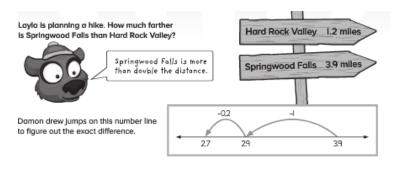


Number line for Relative Position

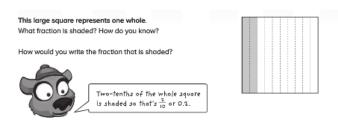
Number line for Relative Position of Millions Expressed as Fractions







Numeral Expander-Decompose Decimal Fractions Place Value Table to Add/Subtract Decimals Number line model to Add/Subtract Decimal Fractions



The shaded part shows one group of 0.2. How could you show 4 groups of 0.2?

Nina used this number line to show the multiplication another way.

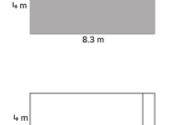
Array Model



This picture shows the dimensions of a room. How could you figure out its area? If must be about 32 m² because 4 x 8 = 32.

Janice split the rectangle into parts that are easier to multiply.

How did she split the rectangle? How will it help her figure out the area? What is the total area? How do you know?



8 m

0.3 m

Area Model to Divide

Area and Number line Model to Multiply Decimal Fractions

Open Array Model to Multiply Decimals

Array Model to Multiply Decimal Fractions

Break-Apart to Divide Decimals

