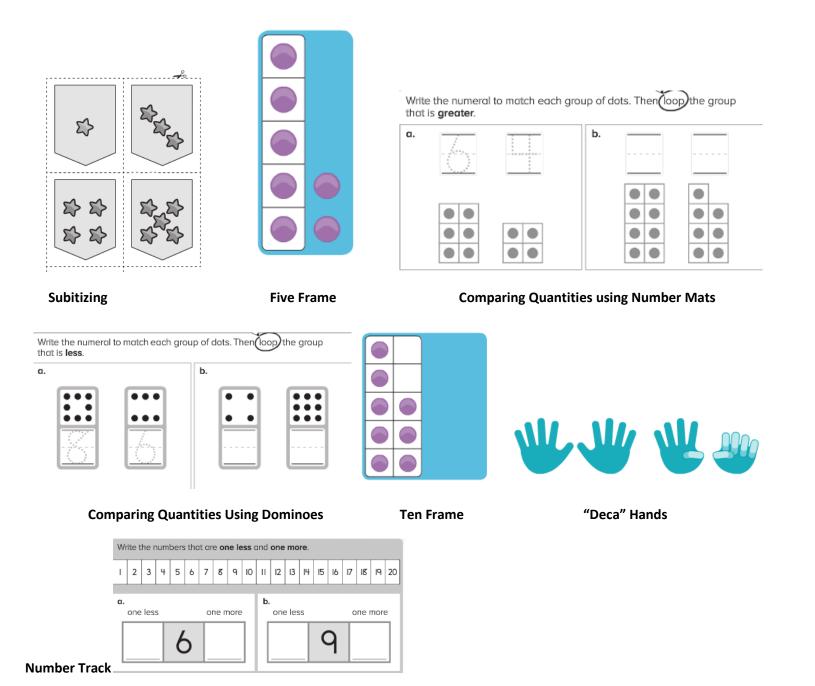
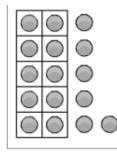
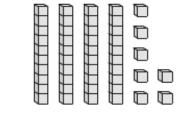
Kindergarten Models for Counting and Cardinality progresses to Number and Operations in Base Ten (from ORIGO Stepping Stones)

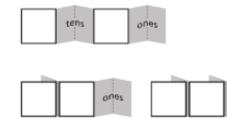


Tier 2 Intervention: Strategies That Invite Students into a Mathematical Community, National Title I Conference, February 10, 2018 Cristina Charney, MA NBCT First Grade Models for Number and Operations in Base Ten (from ORIGO Stepping Stones)

3

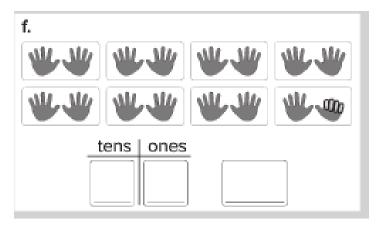




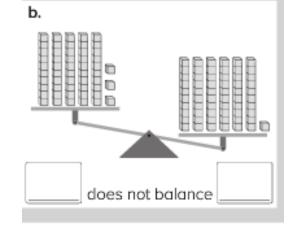


Ten Frames

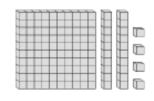
Base Ten Blocks and Numeral Expanders

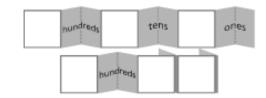


Deca Hands Showing Tens and Ones



1	2	3	4	5	6	7	8	9	10
	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100





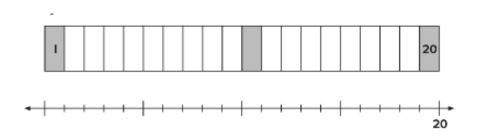
Base Ten Blocks and Balance to Compare

Hundred Chart

Base Ten Blocks and Numeral Expanders

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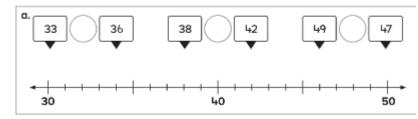
Second Grade Models for Number and Operations in Base Ten (from ORIGO Stepping Stones)



Transition from the Number Track to the Number Line

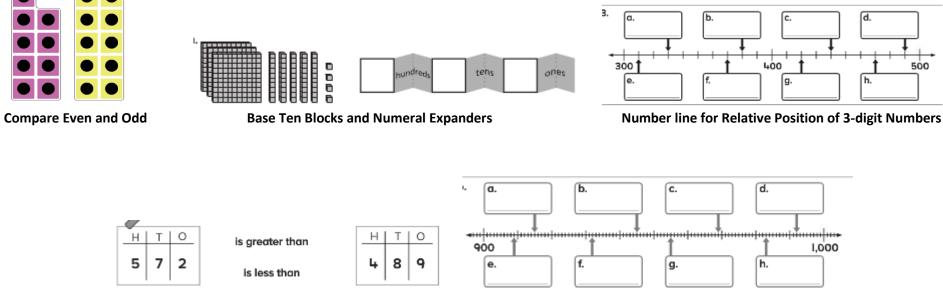
Step Up

I. Draw a line to join each numeral to its position on the number line. Then write < or > in each circle to describe each pair of numerals.



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

500



Place Value Table

Number line for Relative Position to 1,000

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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.

A	E	¢	Þ)	E	F	
700		75			800		
Arrow	Α	В	с	D	E	F	
Number							
Nearest ten							
Nearest hundred							

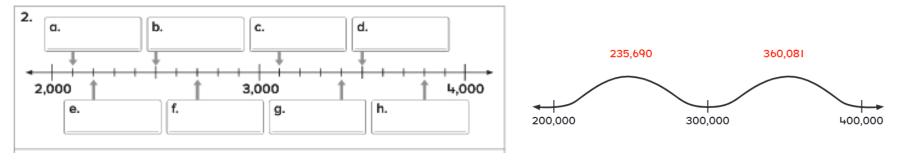
Number line for Rounding

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



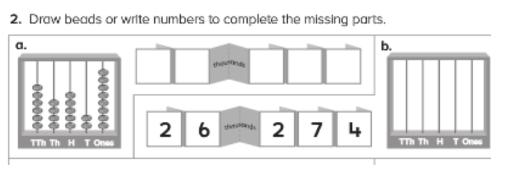


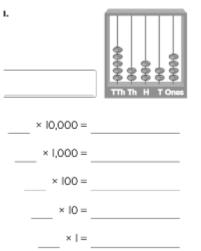
Write the number that is shown by each arrow.



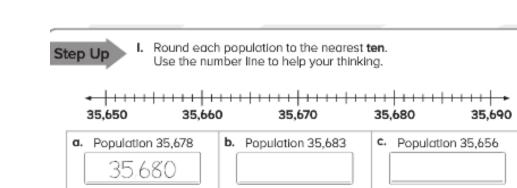
Locating Numbers in the Thousands on the Number Line

Curved Number Lines for Rounding



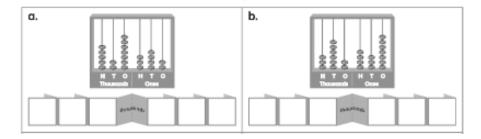


Base Ten Blocks and Numeral Expanders



Number line for Rounding

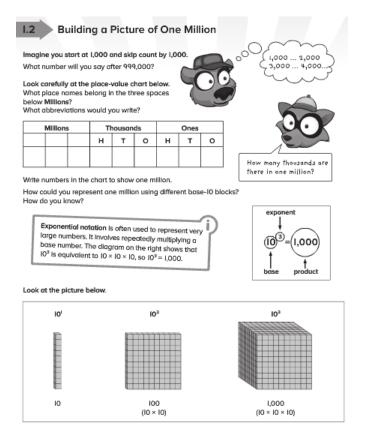
Abacus



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)

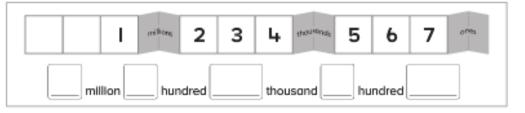


Base Ten Blocks, Place Value Table and Exponents

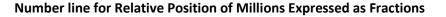
٥. 2. $1\frac{3}{4}$ million 2 million $1\frac{1}{2}$ million million α. b. c. d. 2 + 1,100,000 1,200,000 1,300,000 f. h. e. g. 0 3,000,000

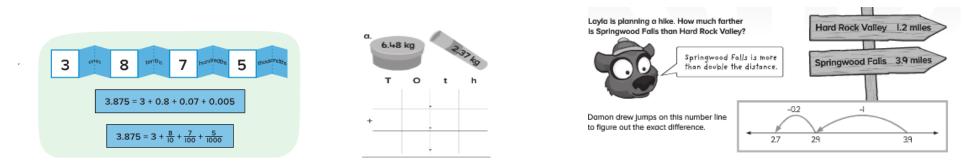
Number line for Relative Position

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

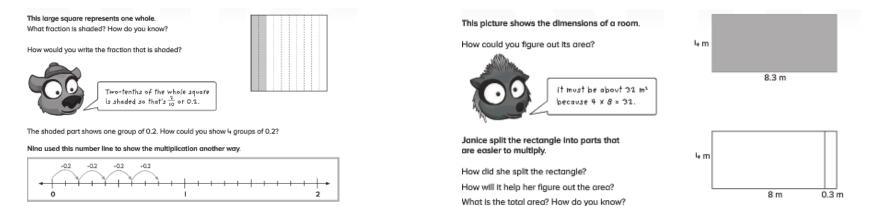


Numeral Expander

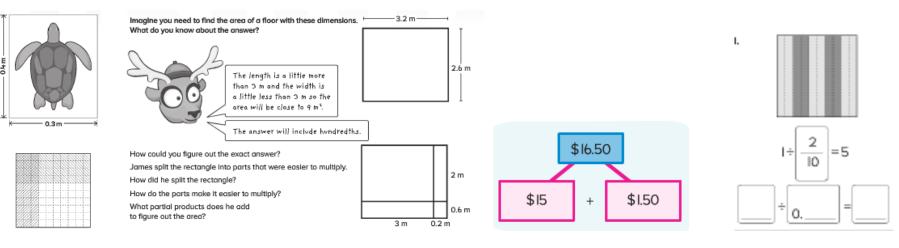




Numeral Expander-Decompose Decimal Fractions Place Value Table to Add/Subtract Decimals Number line model to Add/Subtract Decimal Fractions



Area and Number line Model to Multiply Decimal Fractions



Array Model

Open Array Model to Multiply Decimals

Break-Apart to Divide Decimals

Area Model to Divide

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Array Model to Multiply Decimal Fractions