
Example

Type the number **50,710** in the chart below and represent the value of the number with place value discs and expanded notation.

Type	Value	Expanded Notation
HUNDRED THOUSAND	5	
TEN THOUSAND	0	
ONE THOUSAND	7	
HUNDRED	1	
TEN	0	
ONE		

Drag a white rectangle over any unused boxes in the bottom row.

MARVEL

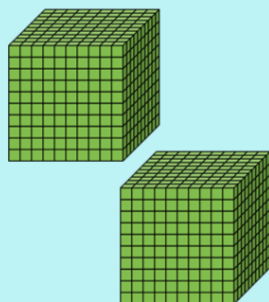
Fun & Meaningful Activities that Work Together to Build Place Value Understanding

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REPRESENT NUMBERS

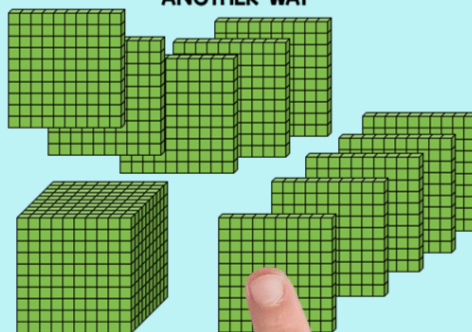
Use Base-10 blocks to represent the number **2,000** in two different ways. Justify your answers showing how the blocks you used represent the value of this number.

ONE WAY

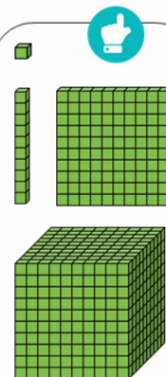


Number Used	Type of Block	Total Value
2	Thousands	2,000
0	Hundreds	0
0	Tens	0
0	Ones	0

ANOTHER WAY



Number Used	Type of Block	Total Value
1	Thousand	1,000
10	Hundred	1,000
0	Tens	0
0	Ones	0



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Engaging Practice with Movable Pieces

Compare NUMBERS

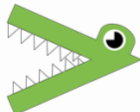
Compare each set of numbers using the correct comparison symbol, $<$, $>$, or $=$.

36,798



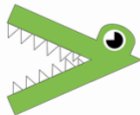
41,043

59,204



57,455

89,356



89,308



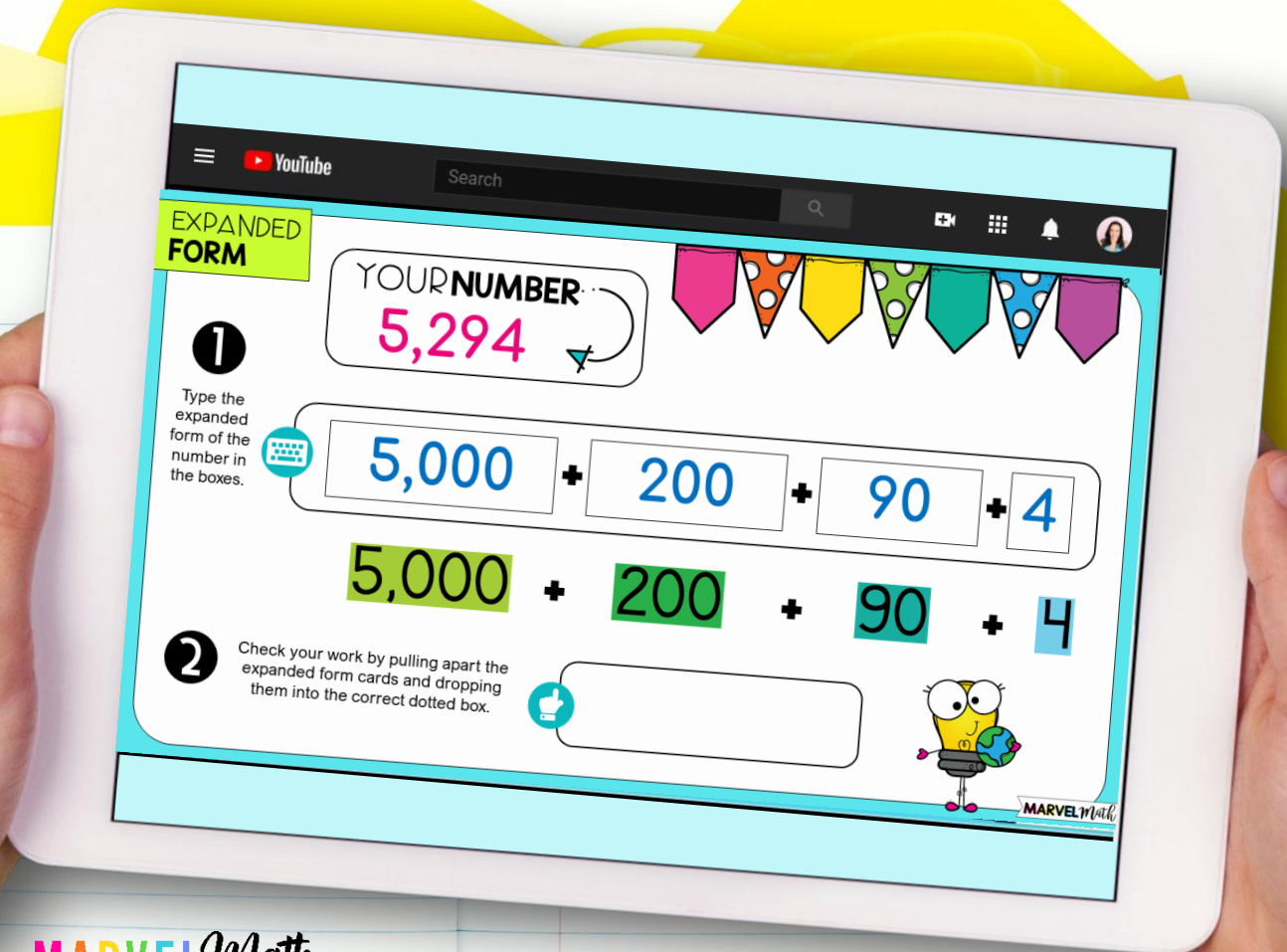
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Video Instructions

Inside the Google Slides Activity



No Prep

Google Slides Activities

REPRESENT NUMBERS

Type the number **7,049** in the chart below and represent the value of the number with place value discs and expanded notation.

Type			7 ,	0	4	9
	HUNDRED THOUSAND	TEN THOUSAND	ONE THOUSAND	HUNDRED	TEN	ONE
Drag Place Value discs here			      		   	        
Type			+ (7 X 1,000)		+ (4 X 10)	+ (9 X 1)



100,000

10,000

1,000

100

10

1

Drag a white rectangle over any unused boxes in the bottom row.

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You Will Love This Resource:

- ✓ **Easy to Assign** to Students in Google Classroom
- ✓ **Moveable Pieces** to Engage Learners
- ✓ Keep or remove Activities to **Fit the Needs of Each Learner**
- ✓ **No Prep:** no Photocopying, Laminating or Cutting

Ways to Use This Resource:

-  **Math Station** – Students can watch the video instructions and complete the activity independently
-  **Whole Class Teaching** – Use the interactive slides to teach this concept during your lesson
-  **Tutoring** – Use the slides for a focused lesson that doesn't need any prep

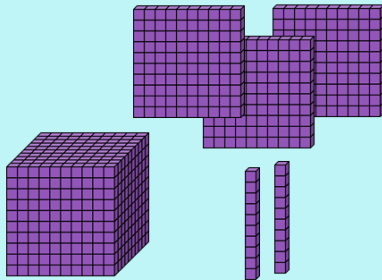
Represent Numbers with Base 10 Blocks

Students learn to represent numbers in more than one way to build place value understanding.

REPRESENT NUMBERS

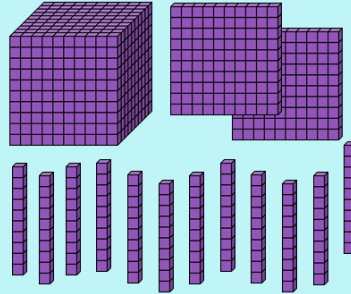
Use Base-10 blocks to represent the number **1,320** in two different ways. Justify your answers showing how the blocks you used represent the value of this number.

ONE WAY

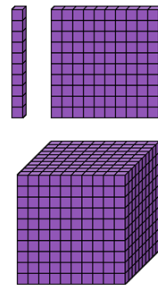


Number Used	Type of Block	Total Value
1	Thousands	1,000
3	Hundreds	300
2	Tens	20
0	Ones	0

ANOTHER WAY



Number Used	Type of Block	Total Value
1	Thousands	1,000
2	Hundreds	200
12	Tens	120
0	Ones	0

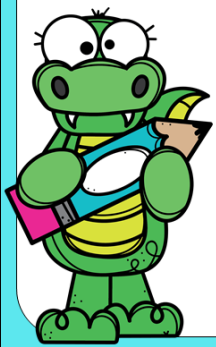


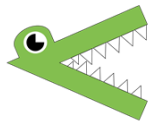
Comparing and Ordering Numbers

Students get the practice they need comparing numbers of different sizes up to 100,000.

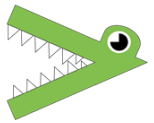
Compare NUMBERS

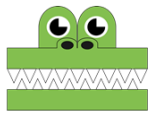
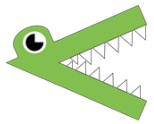
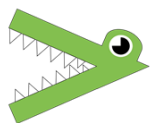
Compare each set of numbers using the correct comparison symbol, $<$, $>$, or $=$.



$5,390$  $5,401$

$12,575$  $12,575$

$8,836$  $8,599$



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Activity 2

Expanded Form

Students type in the Expanded Form and then check their work by moving the Expanded Form Cards on each slide.

EXPANDED FORM

YOUR NUMBER
31,805

1
Type the expanded form of the number in the boxes.

30,000 + 1,000 + 800 + 5

30,000 + 1,000 +

2
Check your work by pulling apart the expanded form cards and dropping them into the correct dotted box.

805

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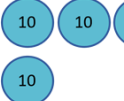
Activity 3

Expanded Notation

Students represent numbers with Place Value Discs to understand the use of equal groups in writing Expanded Notation.

REPRESENT NUMBERS

Type the number **50,142** in the chart below and represent the value of the number with place value discs and expanded notation.

Type		5	0 ,	1	4	2
	HUNDRED THOUSAND	TEN THOUSAND	ONE THOUSAND	HUNDRED	TEN	ONE
Drag Place Value discs here						
Type		+ (5 X 10,000)		+ (1 X 100)	+ (4 X 10)	+ (2 X 1)









Drag a white rectangle over any unused boxes in the bottom row.
 

Activity 5 Round to the Nearest Ten

Activity 6 Round to the Nearest Hundred

Activity 7 Round to the Nearest Thousand

Activity 8 Round to the Nearest Ten Thousand

ROUNDING ON A NUMBER LINE

ROUND **2,439** TO THE NEAREST **THOUSAND**

3

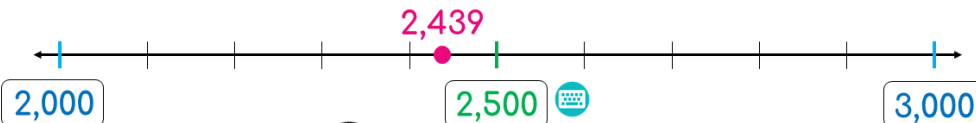
Put the number on the number line.

- 1** Find the thousands the number is between and place them on the number line.



1,000

4,000



2

Type the number that is exactly halfway between these **THOUSANDS**.

- 4** Determine which **THOUSAND** the number is closer to.

2,439 ROUNDS TO

2,000



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Students select the correct numbers to put on the number line to determine how to round each number.

Activities 5-8

ROUNDING ON A NUMBER LINE

ROUND **894** TO THE NEAREST **TEN**

3

Put the number on the number line.

1

Find the tens the number is between and place them on the number line.



800

880

890

894

895



900

2

Type the number that is exactly halfway between these multiples of **TEN**.

4

Determine which **TEN** the number is closer to.

894

ROUNDS TO

890



This resource is included in these

Time & Money Saving BUNDLES

Click here

3rd Grade
Place Value
Unit

Click here

4th Grade
Place Value
Unit

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About the Author

This resource was created by Melissa Johnson, who has 16 years of k-10 teaching experience and a masters degree in Mathematics Education. Her resources build conceptual understanding, make connections between math topics and engage students in the mathematics they are learning.

