

DIGITAL: PLACE VALUE TO 1,000

INCLUDES ROUNDING TO THE NEAREST
TEN AND HUNDRED

CREATED BY
SHELLEY GRAY

BASE TEN MATCH

Drag each number to the correct base ten representation.

208 44

210 120

302 11

DRAG THESE

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THINK ABOUT IT

Which one doesn't belong?

two-hundred forty-two

2 hundreds, 2 tens, and 22 ones

$200+40+2$

DRAG THE HIGHLIGHTER TO HIGHLIGHT THE ONE THAT DOESN'T BELONG.

Explain your thinking. Why doesn't it belong?

Type here.

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About This Resource

This digital place value to 1,000 resource is in Google Slides™ format, making it compatible with Google Classroom™. This resource is only intended for digital learning; there is no PDF document included.

There are **over 100 student slides** included in this digital resource. Your students will work with a variety of place value and rounding skills that are generally taught in 2nd to 4th grade, *depending on the curriculum that you are using*. This includes representing numbers with base ten blocks, place value discs, word form, expanded form, equations, and number lines. Place value and rounding concepts are reinforced in a conceptual way that will help students construct their understanding.

Slides are divided into the following sections:

Labelling place value

includes hundreds, tens, and ones

(2 slides)

The image displays two digital slides from a resource. Each slide is titled "LABEL THE NUMBER" and includes the instruction "Label each digit with its place value." The first slide features the number 461 with three empty boxes below it for labelling. The second slide features the number 252 with three empty boxes below it for labelling. Both slides include a "DRAG THESE PIECES" section with three colored boxes: a purple box labeled "Hundreds", a green box labeled "Ones", and an orange box labeled "Tens". A hand icon is shown next to the "DRAG THESE PIECES" instruction. The copyright information "©Shelley Gray www.ShelleyGrayTeaching.com" is visible at the bottom of each slide.

Representing Numbers: Base Ten Blocks

build numbers with base tens, match base ten and standard representations, problem-solving

(11 slides)

THINK ABOUT IT
It's the day of the big game and there are 725 people sitting in the stadium. There are also some empty chairs.

NUMBER OF EMPTY CHAIRS IN SECTION #1
NUMBER OF EMPTY CHAIRS IN SECTION #2

BUILD THE NUMBER
Use the base ten blocks to build the number 349.

HUNDREDS	TENS	ONES

BASE TEN MATCH
Drag each number to the correct base ten representation.

146 136
231 311
113 204

DRAG THESE PIECES.

Representing Numbers: Place Value Discs

build numbers with place value discs, match different representations, problem-solving

(10 slides)

REPRESENT THE NUMBER
Highlight the place value discs to represent the number.

one-hundred fifty-two

THOUSANDS	HUNDREDS	TENS	ONES
(1,000) (1,000)	100 100	10 10	1 1
(1,000) (1,000)	100 100	10 10	1 1
(1,000) (1,000)	100 100	10 10	1 1
(1,000) (1,000)	100 100	10 10	1 1

BUILD THE NUMBER
Use the place value discs to build the number 87.

HUNDREDS	TENS	ONES

THINK ABOUT IT
Your family goes on a road trip every summer. The place value discs represent the number of kilometers you traveled on last year's road trip and on this year's road trip.

LAST YEAR'S ROAD TRIP
THIS YEAR'S ROAD TRIP

Did you travel more kilometers last year or this year? How many more?

Type here.

Representing Numbers: Word Form

match word form to standard form

(4 slides)

WORD FORM MATCH
Drag each number to the correct word form representation.

one-hundred forty-seven four-hundred ninety-two 504
eighty-nine five-hundred four 147
five-hundred fifty-three ninety-six 96

DRAG THESE PIECES.

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WORD FORM MATCH
Drag each number to the correct word form representation.

three-hundred twenty-one one-hundred thirty-two 123 312
two-hundred thirty-one one-hundred twenty-three 132 231
three-hundred twelve two-hundred thirteen 213 321

DRAG THESE PIECES.

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Representing Numbers: Expanded Form

match word form to standard form, error analysis, ordering digits to make smallest and largest numbers

(10 slides)

FIND THE MISTAKE
James wrote the expanded form for seven-hundred sixty-five, but he made a mistake! Can you find his mistake?

700+60+50

Explain James' mistake:
Type here.

EXPANDED FORM MATCH
Drag each number to the correct expanded form representation.

10+8 30+2 284 18
100+8 90+3 118 93
100+10+8 200+80+4 32 108

DRAG THESE PIECES.

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LARGEST AND SMALLEST
5 3 9

Use the digits above to create the smallest number possible. Then write it in expanded form.

WRITE IT IN EXPANDED FORM.
Type here.

Use the digits above to create the largest number possible. Then write it in expanded form.

WRITE IT IN EXPANDED FORM.
Type here.

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Representing Numbers: Expressions

(2 slides)

WRITE AN EXPRESSION

Write two different expressions that equal each number.

EXAMPLE 384	$300+80+4$ $390-6$	100	Type here. Type here.
245	Type here. Type here.	127	Type here. Type here.
650	Type here. Type here.	702	Type here. Type here.

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WRITE AN EXPRESSION

Write two different expressions that equal each number.

EXAMPLE 232	$200+30+2$ $242-10$	300	Type here. Type here.
612	Type here. Type here.	124	Type here. Type here.
500	Type here. Type here.	703	Type here. Type here.

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Representing Numbers In Multiple Ways

Students will work with numbers in a variety of ways – base ten blocks, word form, expanded form, place value discs, hundred charts and more! Higher order thinking tasks are included.

(9 slides)

THINK ABOUT IT

Use any six base ten blocks to build a number with a value above 450 than 600.

BUILD THE NUMBER.

WRITE THE NUMBER IN WORD FORM.

NUMBER FORMS

Fill in the missing spaces on the chart.

STANDARD FORM	EXPANDED FORM	WORD FORM
138	Type here.	Type here.
Type here.	Type here.	four-hundred twenty-six
Type here.	$400+60+5$	Type here.

HUNDRED CHART

Highlight 3 numbers on the hundred chart. Represent each number in one of the following ways: expanded form, word form, as an equation.

1	2	3	4	5	6	7	8	9	10
11	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

DRAG THE HIGHLIGHTERS.

REPRESENT THE NUMBERS:

Type here.

CREATE A NUMBER

Create any number. Represent it in five different ways.

My number is: Type here.

Base Ten Blocks	Place Value Discs	Expanded Form
Type here.	Type here.	Type here.
Word Form	An Equation	
Type here.	Type here.	

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THINK ABOUT IT

Which one doesn't belong?

two-hundred forty-two		
		DRAG THE HIGHLIGHTER TO HIGHLIGHT THE ONE THAT DOESN'T BELONG.
2 hundreds, 2 tens, and 22 ones	$200+40+2$	Explain your thinking. Why doesn't it belong? Type here.

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Compare, Order, and Sort

Comparing, ordering, and sorting based on place value relationships

(6 slides)

COMPARE THE NUMBERS
Drag a greater than or less than symbol to compare set of numbers.
328 ○ 348 490 ○ 390

ORDER THE NUMBERS
Order the numbers in each set along the number line.
DRAG THESE NUMBERS: 175 150 104
100 _____ 200
DRAG THESE NUMBERS: 530 780 600
500 _____ 800

ORDER THE NUMBERS
Order the numbers in each set from least to greatest.
DRAG THESE NUMBERS: 155 58 185 85 158
LEAST [] [] [] [] GREATEST
DRAG THESE NUMBERS: 44 14 64 400 40
LEAST [] [] [] [] GREATEST

SORT THE NUMBERS
Sort the numbers into the correct category.
NUMBERS BETWEEN 1 AND 300 NUMBERS BETWEEN 301 AND 600 NUMBERS BETWEEN 601 AND 1,000
37 68 104 320 450 587 638 889 904

Values of Digits

A variety of activities to reinforce the value of digits; includes mystery number activities, 10 times as much, and more and less

(19 slides)

MORE AND LESS
Fill in the missing spaces on the chart.

NUMBER	100 MORE	100 LESS	10 MORE
568	#	#	#
651	#	#	#
780	#	#	#

10 TIMES AS MUCH
Think about the value of the number 14.
Write a number whose value is 10 times as much as 14.

MORE AND LESS
Fill in the missing spaces on the chart.

NUMBER	100 MORE	100 LESS	10 MORE
568	#	#	#
651	#	#	#
780	#	#	#

HOW TO USE PLACE VALUE PIECES TO BUILD NUMBERS
STEP ONE: Choose your pieces. For example, to build 425, we need a 400, a 20, and a 5.
STEP TWO: Layer the pieces to create the number.
REMEMBER: We could not use the 400 piece for the tens place because these are only worth 40. We could not use the 20 piece for the hundreds place for the ones place because these are only worth 2.

MYSTERY NUMBER
Read the clues. As you eliminate a number, cross it out with an X. Which number is the mystery number?
CLUE #1: My hundreds place has a value greater than 40.
CLUE #2: The number in the ones place is even.
CLUE #3: I am a 3-digit number.
CLUE #4: The number in the tens place has a value of 80.
CLUE #5: The ones place has a value of 2.
CLUE #6: The value of the hundreds place is not 700.
358 577 674 686 402
782 1,214 682 275 999

BUILD ANY NUMBER
Use the place value pieces to build ANY number. Then write it in expanded form and word form.
Build the number.

NUMBER VALUES
If the value of the tens place is 10, 20, or 30, highlight the number purple.
If the value of the tens place is 40, 50, or 60, highlight the number orange.
If the value of the tens place is 70, 80, or 90, highlight the number blue.
344 210
675 255
290 523

Rounding Numbers Using Place Value Understanding: Nearest Ten

Students will round to the nearest ten for 2 and 3-digit numbers. The focus is on making sense of rounding using number lines and base ten blocks.

(12 slides)

THE NEAREST TEN

STEP 1: Consider the number 36. Write the multiples of ten that are below and above 36 in the blue rectangles.

STEP 2: Place a star on the number line where you would find 36.

Which multiple of ten is 36 closest to?

Type here.

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THINK ABOUT IT

Lise makes a list of building supplies for her project. She decides to round each number up so that she has extras of each supply.

Complete the chart to show the amount of each supply that Lise should buy.

Building Supply	Amount Needed	Amount to Buy (round up to the nearest 10)
nails	145	Type here.
boards	16	Type here.
screws	18	Type here.

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THE NEAREST TEN

Place a star on the number line where you would find 123.

123 is # away from 120.

123 is # away from 130.

Type here.

THE NEAREST TEN

Round each number to the nearest ten.

67

42

69

252

18

DRAG THESE NUMBERS.

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THE NEAREST TEN

These blocks show 127.

127 is # away from 120.

127 is # away from 130.

Which **multiple of 10** is 127 closer to: 120 or 130?

Type here.

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Rounding Numbers Using Place Value Understanding: Nearest Hundred


Students will round three-digit numbers to the nearest hundred. The focus is on making sense of rounding using number lines and base ten blocks.

(12 slides)

THE NEAREST HUNDRED

Round each number to the nearest hundred.

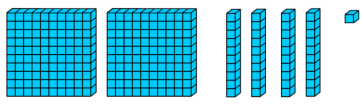
123	<input type="text"/>	620	<input type="text"/>
459	<input type="text"/>	772	<input type="text"/>
403	<input type="text"/>	476	<input type="text"/>
568	<input type="text"/>	199	<input type="text"/>



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THE NEAREST HUNDRED

These blocks show 241.



241 is away from 200.
241 is away from 300.

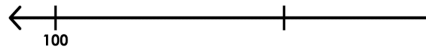
Which multiple of 100 is 241 closer to: 200 or 300?

Type here.

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THE NEAREST HUNDRED

Place a star on the number line where you would round 180.



180 is away from 100.
180 is away from 200.

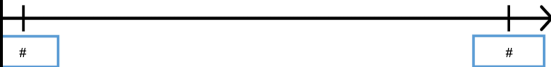
Is 180 closer to 100 or 200?

Type here.

THE NEAREST HUNDRED

STEP 1: Consider the number 762. Write the multiples of 100 that are below and above 762 in the blue rectangles.

STEP 2: Place a star on the number line where you would find 762.



Which multiple of 100 is 762 closest to?

Type here.

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THINK ABOUT IT

Yesterday there were 789 people at the festival. Today there are 511 people at the festival. About how many more people were at the festival yesterday?

Round each number to find the approximate difference.

Type here.

Does rounding seem like a reasonable way to solve a problem like this? Why or why not?

Type here.

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The digital nature of this resource means that students will be moving objects around and typing directly on the slides. This resource is designed in a way that will make the interactive components intuitive for students.



MOVEABLE!



TEXT BOXES TO TYPE INTO

MORE QUESTIONS ABOUT DIGITAL LEARNING? CHECK OUT THESE INFORMATIVE STEP BY STEP BLOG POSTS FOR ASSIGNING SLIDES AND CREATING ASSIGNMENTS.

<https://shelleygrayteaching.com/google-slides-how-to-assign-only-a-few-slides-at-a-time/>

<https://shelleygrayteaching.com/how-to-create-an-assignment-with-google-classroom/>