

DIGITAL: PLACE VALUE TO 100

INCLUDES ROUNDING TO THE NEAREST TEN

CREATED BY
SHELLEY GRAY

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

15 40
44 22
23 100

©Shelley Gray www.ShelleyGrayTeaching.com

DRAG THESE P

The interface shows a grid of base ten blocks (purple rods and blue cubes) and empty circles for matching. A hand is pointing at the bottom right of the screen.

THINK ABOUT IT
Which one doesn't belong?

twenty-two

2 tens and 2 ones

$10+10+4$

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

Explain your thinking. Why doesn't it belong?

Type here.

©Shelley Gray www.ShelleyGrayTeaching.com

The interface shows a grid of mathematical representations: the text 'twenty-two', a base ten block representation of 22 (two rods and two units), the equation $10+10+4$, and a pink square. A hand is pointing at the pink square.

About This Resource

This digital place value to 100 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.

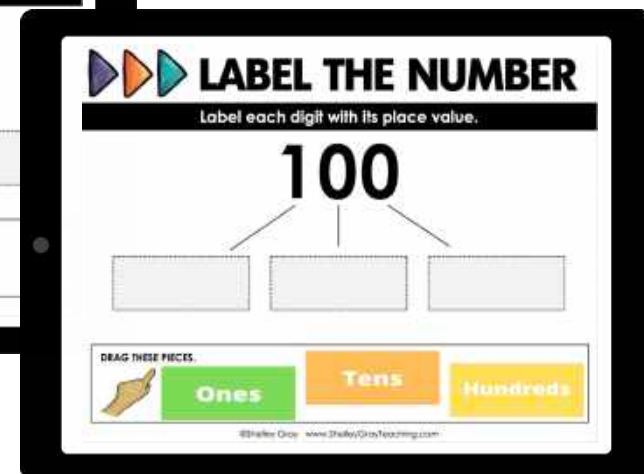
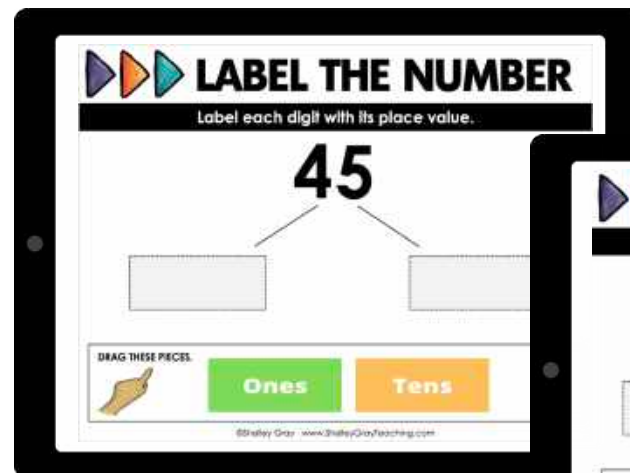
There are **over 80 student slides** included in this digital resource. Your students will work with a variety of place value and rounding skills that are generally taught in 2nd to 4th grade, *depending on the curriculum that you are using*. This includes representing numbers with base ten blocks, place 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)



Representing Numbers: Base Ten Blocks

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

(11 slides)

BUILD THE NUMBER
Use the base ten blocks to build the number 34.

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

THINK ABOUT IT
You and a friend have been collecting rocks, and you both have a bag full. As you count them, your friend says, "If I give you 20 of my rocks, we will both have the same amount!"

YOUR ROCKS	YOUR FRIEND'S ROCKS

Is your friend correct?
Type here:
Explain your thinking.
Type here.

©Shelley Gray www.ShelleyGrayTeaching.com

DRAG THESE PIECES.

Representing Numbers: Place Value Discs

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

(10 slides)

BUILD THE NUMBER
Use the place value discs to build the number 43.

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

THINK ABOUT IT
The number of kids in your grade changes each year. The place value discs show how many kids were in your grade last year and how many are in your grade this year.

LAST YEAR	THIS YEAR

Were more kids in your grade last year or this year? How many more?
Type here.

©Shelley Gray www.ShelleyGrayTeaching.com

DRAG THE HIGHLIGHTERS.

Representing Numbers: Word Form

match word form to standard form

(4 slides)

The image shows two overlapping digital activity cards. The top card is titled 'WORD FORM MATCH' and has the instruction 'Drag each number to the correct word form representation.' It features six word form boxes: 'sixty-three', 'sixteen', 'eighty-five', 'forty-six', 'eighteen', and 'eighty-six'. To the right are three purple circles containing the numbers 86, 63, and 16. The bottom card is also titled 'WORD FORM MATCH' with the instruction 'Drag each number to the correct word form representation.' It features six word form boxes: 'forty-one', 'seventy-four', 'fifteen', 'four', 'fourteen', and 'fifty-four'. To the right are six red circles containing the numbers 41, 4, 74, 54, 15, and 14. Both cards include a 'DRAG THESE PIECES' instruction and a small logo at the bottom.

Representing Numbers: Expanded Form

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

(10 slides)

The image shows three overlapping digital activity cards. The top card is titled 'LARGEST AND SMALLEST' and features the digits 3 and 5. It has two sections: 'Use the digits above to create the smallest number possible. Then write it in expanded form.' and 'Now use the digits to create the largest number possible. Then write it in expanded form.' The middle card is titled 'FIND THE MISTAKE' and features three addition expressions: $20+7$, $19+8$, and $15+9$. The bottom card is titled 'EXPANDED FORM MATCH' and has the instruction 'Drag each number to the correct representation.' It features six expanded form boxes: '2 tens and 8 ones', '7 ones', '7 tens', '1 ten and 6 ones', '8 tens and 2 ones', and '6 tens and 1 one'. To the right are six blue circles containing the numbers 70, 61, 82, 16, 28, and 7. All cards include a 'DRAG THESE PIECES' instruction and a small logo at the bottom.

Representing Numbers: Expressions

(2 slides)

WRITE AN EXPRESSION
Write two different expressions that equal each number.

EXAMPLE: 84 $80+4$ 100
 $90-6$

32 Type here. 21 Type here.
 Type here. Type here.

79 Type here. 45 Type here.
 Type here. Type here.

© Shelley Gray www.ShelleyGrayTeaching.com

WRITE AN EXPRESSION
Write two different expressions that equal each number.

EXAMPLE: 52 $50+2$ 87
 $42+10$

17 Type here. 29 Type here.
 Type here. Type here.

53 Type here. 30 Type here.
 Type here. Type here.

© Shelley Gray www.ShelleyGrayTeaching.com

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.

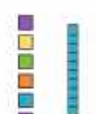
(9 slides)

NUMBER FORMS
Fill in the missing spaces on the chart.

STANDARD FORM	EXPANDED FORM	WORD FORM
Type here.	$40+8$	Type here.
Type here.	Type here.	sixty-eight
41	Type here.	Type here.

THINK ABOUT IT
Use any six base ten blocks to build a number with a value above 20 but less than 40.

BUILD THE NUMBER.



HUNDRED CHART
Highlight 3 numbers on the hundred chart. Represent number in one of the following ways: expanded form, word form, or 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

REPRESENT THE NUMBERS:
Type here.

CREATE A NUMBER
Create any number. Represent it in five different ways.

My number is: Type here.

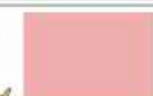
Base-Ten Blocks Place Value Discs Expanded Form
Type here. Type here. Type here.



Word Form
Type here.

An Equation
Type here.

© Shelley Gray www.ShelleyGrayTeaching.com

THINK ABOUT IT
Which one doesn't belong?

twenty-two $20+2$ 

  Explain your thinking. Why doesn't it belong?
Type here.

2 tens and 2 ones $10+10+4$

© Shelley Gray www.ShelleyGrayTeaching.com

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 a set of numbers.
20 19 95 85

ORDER THE NUMBERS
Order the numbers in each set along the number line.
30 100
99 58 79

ORDER THE NUMBERS
Order the numbers in each set from least to greatest.
LEAST GREATEST
28 40 88 70 15
LEAST GREATEST
65 23 56 32 78

SORT THE NUMBERS
Sort the numbers into the correct category.
NUMBERS BETWEEN 1 AND 30
NUMBERS BETWEEN 31 AND 60
NUMBERS BETWEEN 61 AND 100
70 15
96 28
33 49
7 51
65

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

(16 slides)

NUMBER VALUES
If the value of the tens place is 0, 10, 20, or 30, highlight the tens digit.
If the value of the tens place is 40, 50, or 60, highlight the tens digit.
If the value of the tens place is 70, 80, or 90, highlight the tens digit.
46 72 60
59 18 94

10 TIMES AS MUCH
Think about the value of the number 25.
Write a number where the 5 is worth 10 times as much.

BUILD THE NUMBERS
Layer the place value pieces to build the numbers.
84 27

MYSTERY NUMBER
Read the clues. As you eliminate a number, cross it out with an X. Which number is the mystery number?
CLUE #1: I am greater than 35.
CLUE #2: I have an odd number of tens.
CLUE #3: I am less than 60.
CLUE #4: If you count by 10s, I am in the 40s.
CLUE #5: I am an even number.
CLUE #6: I have less than 50.
50 56
28 75

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

NUMBER	10 MORE	10 LESS	20 MORE	20 LESS
73	#	#	#	#
61	#	#	#	#
19	#	#	#	#
50	#	#	#	#
34	#	#	#	#

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

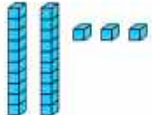
Rounding Numbers Using Place Value Understanding: Nearest Ten

Students will round numbers to 100 to the nearest ten. The focus is on making sense of rounding using number lines and base ten blocks.

(14 slides)

THE NEAREST TEN

These blocks show 23.



23 is # away from 20.

23 is # away from 30.

Which multiple of 10 is 23 closest to?


Type here:

©Shelley Gray www.ShelleyGrayTeaching.com

THE NEAREST TEN

STEP 1: Consider the number 61. Write the multiples of ten that are below and above 61 in the blue rectangles.

STEP 2: Place a star on the number line where you would find 61.



Which multiple of ten is 61 closest to?


Type here:

©Shelley Gray www.ShelleyGrayTeaching.com

THE NEAREST TEN

Round each number to the nearest ten.

46	<input type="text"/>	71	<input type="text"/>
89	<input type="text"/>	26	<input type="text"/>
75	<input type="text"/>	13	<input type="text"/>



©Shelley Gray www.ShelleyGrayTeaching.com

THE NEAREST TEN

Round each number to the nearest ten and place it in the correct column.

20	30	40	50

35	33	18
34	22	16
53	38	28
27	23	45
46	41	44
		51

©Shelley Gray www.ShelleyGrayTeaching.com

THINK ABOUT IT

Toni has a goal to run for about 60 minutes this week. The chart below shows how long she ran each day. Round each time to the nearest ten to see if she met her goal.

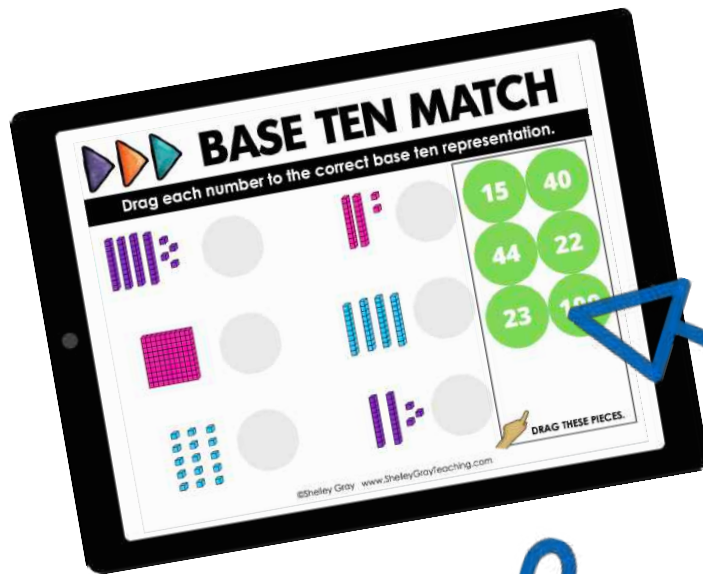
Day of the Week	How long did Toni run?	Amount of Time Rounded to the Nearest Ten
Monday	14	Type here.
Tuesday	18	Type here.
Thursday	25	Type here.
Saturday	13	Type here.

Did Toni meet her goal?

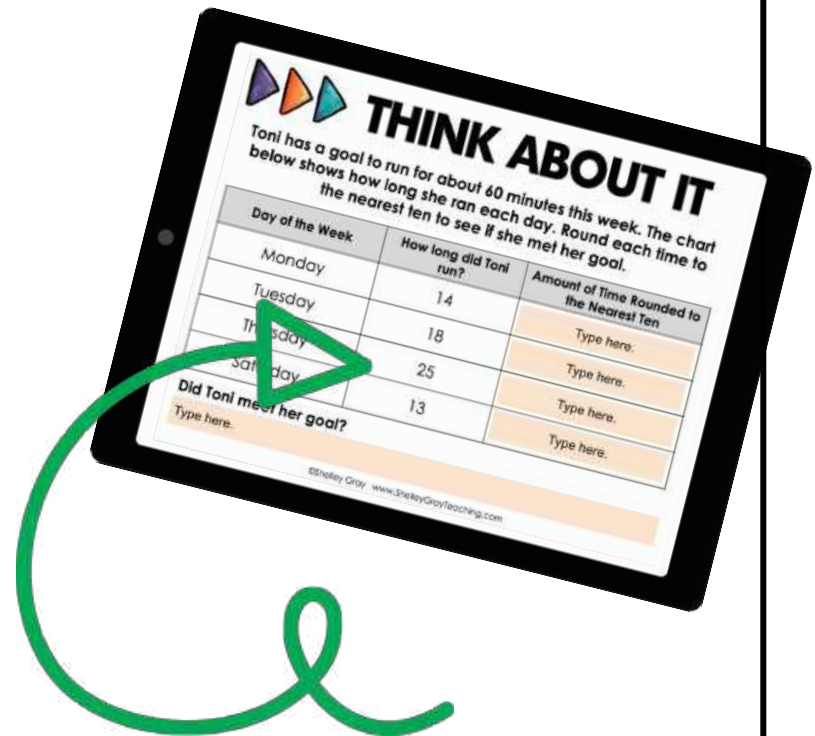
Type here:

©Shelley Gray www.ShelleyGrayTeaching.com

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/>