



Place Value

20 full days of math lesson plans, PowerPoints, & activities

Unit 2 Lesson 15
Directions: Use the number line to round 7246 to the nearest ten.

7246 =

Directions: Use the number line to round 654203 to the nearest hundred.

654203 =

Unit 2 Lesson 12 Homework
Name: _____
Directions: Compare the numbers using >, <, or =.

1. 12,368 < 12,888

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
		1	2	3	6	8
thousands	hundreds	tens	ones	tenths	hundredths	thousandths
		1	2	8	8	8

2. 49.03 > 9.03

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
thousands	hundreds	tens	ones	tenths	hundredths	thousandths

Warm Up

Write the decimal in expanded form using only whole numbers.

246.0

Fact Fluency

QUICK THINK!

Multiplying Decimals

We can move each digit two spaces to the left to multiply by 100.

$$54.2 \times 100$$

thousands	hundreds	tens	ones	tenths	hundredths	thousandths
5	4			2		



100 =

PLACE VALUE

The value of each digit

hundreds	tens	ones
3	2	8

DECOMPOSE

to break down

$$1,382 = 138 \text{ tens} + 2$$

POWERS OF TEN

ten multiplied by itself a number of times

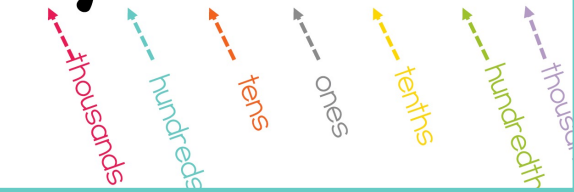
100
1,000

Decimal Place

hundred millions	ten millions	millions	hundred thousands	ten thousands	thousands	hundreds
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PLACE VALUES

7,236.529



UNIT 2: PLACE VALUE at a glance

Day 1 Whole Number Place Values	Day 2 Whole Number Place Values	Day 3 Multiplying Whole Numbers by the Powers of 10	Day 4 Exponents	Day 5 Exponents
Day 6 Decimal Place Values	Day 7 Decimal Place Values	Day 8 Multiplying Decimals by the Powers of 10	Day 9 Multiplying Decimals by the Powers of 10	Day 10 Review
Day 11 Compare Decimals	Day 12 Compare Decimals	Day 13 Order Decimals	Day 14 Round Decimals to the Nearest Whole Number	Day 15 Round Decimals to the Nearest Whole Numbers
Day 16 Round Decimals to the Nearest Tenth	Day 17 Round Decimals to the Nearest Hundredth	Day 18 Rounding Decimals	Day 19 Word Problems	Day 20 Assessment

THIS UNIT COVERS THE FOLLOWING COMMON CORE MATH STANDARDS: 5.NBT.1, 5.NBT.2, 5.NBT.3, and 5.NBT.4



Includes a pacing guide so you can see the whole unit at a glance.



2.11 COMPARING DECIMALS

I CAN STATEMENT
I can compare decimals using place value strategies.

MATERIALS
2.11 PPT
2.11 printouts

VOCABULARY
decimal
greater than
less than

2.16 ROUNDING DECIMALS

I CAN STATEMENT
I can round numbers with decimals to the tenth.

MATERIALS
2.16 PPT
2.16 printouts

VOCABULARY
decimal
rounding

2.8 MULTIPLYING DECIMALS

I CAN STATEMENT
I can multiply decimals by the powers of ten.

MATERIALS
2.8 PPT
2.8 printouts

VOCABULARY
powers of ten
decimal

MINI LESSON

Spend the first few minutes of the lesson completing the fact fluency slides. These slides allow students to practice adding 100.

Using the PPT, complete the warm-up with students. The warm-up is a review of writing numbers in expanded form.

Using the PPT, review the following vocabulary terms: powers of ten and decimal. Tell the students that today we will work on multiplying numbers with decimals by the powers of ten.

Model how to use the place value chart to multiply 542 by 10 and by 100.

Then, teach the students how to multiply decimals by the powers of ten without using a place value chart. Tell them that we will still move each place over, but instead of using the chart, we can just manipulate the digits in the number.

INTERVENTION
Have students use a place value chart to multiply until they are able to do it fluently. Then, have them try without the chart.

EXTENSION
Challenge the students to multiply the decimals by larger powers of ten.

2.8 MEET THE TEACHER

MATERIALS FOR TEACHER: journal pages for teacher and students, scissors, glue, pencil

MATERIALS FOR STUDENTS: journals, scissors, glue, pencils, place value chart

APPROACHING	Model how to quickly cut and glue the journal page. Have students show you that they can do the same in a timely manner using their journal pages. Complete the first couple problems with the students. Then, allow the students to walk you through how to solve the next couple problems. Have students solve the remaining problems on their own and check together. Allow the students to use a place value chart if needed.
ON TRACK	Model how to quickly cut and glue the journal page. Have students show you that they can do the same using their journal pages. Model how to solve the first problem. Then, allow the students to work in pairs to solve each problem. Have the pairs sit quietly until everyone is finished. Check each answer as a group.
MASTERED	Model how to quickly cut and glue the journal page. Have students show you that they can do the same using their journal pages. Have students complete the sheet on their own. Then, pair



Engaging whole & small group lessons are done for you, making prep & planning a breeze.

Decimal Place Values

Whole numbers increase in value 10x as you move left on the place value chart. This means one hundred is 10 times greater than one ten.

thousands	hundreds

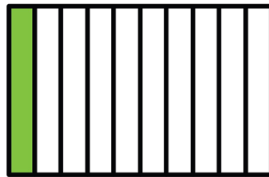
Decimal Place Values

We can write one tenth as .1

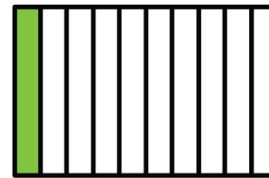
thousands	hundreds	tens	ones

Decimal Place Values

We can also write 1 tenth as an expression with a fraction.



We can write this as $\frac{1}{10}$. We have 1 group of 1 tenth.



$$1 \times \frac{1}{10}$$

We have 1 group of 1 tenth.

Deliver great lessons with step-by-step PowerPoints for teaching math skills.



WORD PROBLEMS

Place Value

Darcy's bank account has a balance of \$4,592.28. What is the balance on the account to the nearest dollar?

Zoo for You used 18×10^3 gallons of food to feed their animals in May. In June, they opened a new exhibit and used 4×10^4 gallons of food. How much more food did they use in June than May?

Penelope measured 54.98 inches tall in 2023. The 8 in her height in 2024 is 100 times greater than the 8 in her height in 2023. Which could be her height in 2024?

- a. 53.82 in. b. 58.27 in. c. 82.97 in.

REVIEW board game



CARD 10:
Write the number in expanded form.
 78.91

CARD 1:
Write the value of the underlined digit.
 $549,672,005$

UNIT TWO
TASK CARDS
PLACE VALUE



Solve the problem.
 583×100

Write the number in standard form.
 $(5 \times 10,000,000) + (3 \times 1,000,000) + (6 \times 100,000) + (8 \times 10,000) + (2 \times 1,000) + (2 \times 100)$



Get students excited with targeted, hands-on math activities & interactive notebooks.



Name: _____

Unit 2 Lesson 6 Problem Set

Directions: Write each number as a decimal and as an expression with a fraction.

1. 1 tenth	2. 2 tenths	3. 1 hundredth
Decimal: _____	Decimal: _____	Decimal: _____
Expression: _____	Expression: _____	Expression: _____

4. 2 hundredths	5. 1 thousandth	6. 2 thousandths
Decimal: _____	Decimal: _____	Decimal: _____
Expression: _____	Expression: _____	Expression: _____

7. Write the number 249.74 in the place value chart.

thousands	hundreds	tens	ones	tenths	hundredths	thousandths

8. How many times greater is the 4 in the tens place than the 4 in the hundredths place?

9. Write the number 584.045 in the place value chart.

thousands	hundreds	tens	ones	tenths	hundredths	thousandths

10. How many times greater is the 5 in the hundreds place than the 5 in the thousandths place?

NOT SO WIMPY TEACHER

Name: _____

Unit 2 Lesson 4 Exit Ticket Answer Key

Directions: Use the number line to round each number to the whole number.

1. $5.27 \approx 5$

2. $42.68 \approx 43$

3. $435.539 \approx 436$

NOT SO WIMPY TEACHER

Name: _____

Homework

the word problem solving strategy.

novel in April. In May, she wrote 100 times the how many pages did she write in April?

She wrote 6,800 pages in April.

house. Her first bedroom has a length of ment of the second bedroom is $\frac{1}{100}$ the d be the length of the second bedroom?

his sixth week of training, he ran a total he run rounded to the nearest whole

Name: _____

Unit 2 Lesson 4 Exit Ticket

Directions: Write each expression in exponent form and word form as a power of ten.

1. $10 \times 10 \times 10$
 exponent form: _____
 word form: _____

Directions: Find the value.

3. $10^2 =$ _____

2. $10 \times 10 \times 10 \times 10 \times 10$
 exponent form: _____
 word form: _____

4. $10^5 =$ _____

NOT SO WIMPY TEACHER



Includes problem sets, homework, and exit tickets for each day.

Unit 2 Assessment Answer Key

Name: _____

Directions: Write the value of the underlined digit in each number.

3. 72,938 2,000

4. 637,009

5. 625.034 .004

6. 6,883,995

7. 56,394,394 80,000

8. 903,734,285

Directions: Solve each problem.

9. $938 \times 10 =$ 9,380

11. $83.493 \times 100 =$ 8,349.3

13. $729.89 \times 10 =$ 7,298.9

15. $85 \times .1 =$.85

17. $235 \times .01 =$.235

Directions: Write each expression in exponent form.

19. $10 \times 10 \times 10 \times 10 \times 10$
 exponent form: 10^5
 word form: The fifth power of ten

Unit 2 Place Value Pre-assessment

Name: _____

I. Write the number 731,983 in expanded form and word form.

Expanded form: _____

Word form: _____

Directions: Write the value of the underlined digit.

2. 932 3. 82,302 4. 605,283 5. 5,824,637 6. 90,392

Directions: Round each number to the given place value.

7. Round to the nearest 1,000. 8. Round to the nearest 10,000.

67,294 \approx _____ 3,034,563 \approx _____

Assessment

Name: _____

Write the number in each form.

millions		thousands			ones		
tens	ones	hundreds	tens	ones	hundreds	tens	ones
	4	8	0	9	2	5	5

expanded form

ones	tenths	hundredths	thousandths
0	7	6	

expanded form

Skill	Place Value Forms	Digit Values	Powers of Ten	Exponent Forms	Exponents	Comparing Numbers	Ordering Decimals	Rounding Numbers	Word Problems	
Student	1-2	3-8	9-18	19-20	21-26	27-32	33-36	37-39	40-42	TOTAL
	___ / 6	___ / 6	___ / 10	___ / 4	___ / 6	___ / 6	___ / 4	___ / 3	___ / 3	___ / 48
	___ / 6	___ / 6	___ / 10	___ / 4	___ / 6	___ / 6	___ / 4	___ / 3	___ / 3	___ / 48
	___ / 6	___ / 6	___ / 10	___ / 4	___ / 6	___ / 6	___ / 4	___ / 3	___ / 3	___ / 48
	___ / 6	___ / 6	___ / 10	___ / 4	___ / 6	___ / 6	___ / 4	___ / 3	___ / 3	___ / 48
	___ / 6	___ / 6	___ / 10	___ / 4	___ / 6	___ / 6	___ / 4	___ / 3	___ / 3	___ / 48
	___ / 6	___ / 6	___ / 10	___ / 4	___ / 6	___ / 6	___ / 4	___ / 3	___ / 3	___ / 48
	___ / 6	___ / 6	___ / 10	___ / 4	___ / 6	___ / 6	___ / 4	___ / 3	___ / 3	___ / 48
	___ / 6	___ / 6	___ / 10	___ / 4	___ / 6	___ / 6	___ / 4	___ / 3	___ / 3	___ / 48



Track student progress with pre- & post-assessments and recording sheet.

Unit 2 Lesson 12 Homework

Directions: Compare the numbers.

1. 12,368

thousands	hundreds	tens	ones

2. 49.03

thousands	hundreds	tens	ones	tenths	hundredths

3. 8.322

thousands	hundreds	tens	ones	tenths	hundredths	thousandths

5. 36.02

thousands	hundreds	tens	ones	tenths	hundredths

7. 872

thousands	hundreds	tens	ones

9.

thousands	hundreds	tens	ones

2.7 DECIMAL PLACE VALUES

I CAN STATEMENT
I can identify the place value of each digit in a number.

MATERIALS
2.7 PPT
2.7 printouts

VOCABULARY
expanded form
standard form
word form
decompose
decimal

MINI LESSON
Spend the first few minutes of the lesson completing the fact fluency slides. These slides allow students to practice adding 100.
Using the PPT, complete the warm-up with students. The warm-up is a review of place value.
Using the PPT, review the following vocabulary terms: expanded form, standard form, word form, decompose, and decimal. Tell the students that we will continue learning about the place value of numbers with decimals.
Review the place value chart with the students. Then, model how to write the decimals in word form. Tell the students that they can represent a decimal with the word "and."
Introduce expanded form to the students. Tell the students that we can represent these numbers with decimals or fractions. Model how to write each number both ways.

INTERVENTION
Allow students to choose which expanded form is easier for them and have them work in that form. When they master that form, have them work on the other form.

EXTENSION
Challenge the students to write each number in both forms.

BASE
the repeated factor
when a number is written in standard form

10⁴

STANDARD FORM
when a number is written in standard form

543

ROUNDING
finding the closest simple number

84 ≈ 80

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Teach with confidence; each day is fully planned for you with all the tools you need!