

Grade 5

Unit 1

Week 1

Parents: Please help your child choose the most appropriate assignment(s) to complete each day. When the day's assignment is done, students finish the two reflection statements on this page.

Please note Extra Practice activities are on-level for the grade level. Re-Engage activities give students additional support.

| | Monday | Tuesday | Wednesday | Thursday | Friday |
|------------|--|--|--|--|--|
| Topic | Read and write numbers with decimals to the thousandths place. | Read and write numbers in expanded form to the thousandths place. | Use powers of 10 to multiply whole numbers. | Multiply and divide a decimal number by powers of 10. | Compare decimals by using the $>$, $<$, and $=$ symbols. |
| Assignment | Unit 1 Lesson 2 Re-Engage A Re-Engage B Extra Practice | Unit 1 Lesson 4 Re-Engage Extra Practice | Unit 1 Lesson 8 Re-Engage A Re-Engage B Re-Engage C Extra Practice | Unit 1 Lesson 10 Re-Engage A Re-Engage B Extra Practice | Unit 1 Lesson 12 Re-Engage Extra Practice |
| Video link | Unit 1 Lesson 2 English Spanish | Unit 1 Lesson 4 English Spanish | Unit 1 Lesson 8 English Spanish | Unit 1 Lesson 10 English Spanish | Unit 1 Lesson 12 English Spanish |
| Reflection | One thing I was successful with is... One thing I need more help with is... | One thing I was successful with is... One thing I need more help with is... | One thing I was successful with is... One thing I need more help with is... | One thing I was successful with is... One thing I need more help with is... | One thing I was successful with is... One thing I need more help with is... |

Find this packet on swunmath.com. Click on the hyperlinks to jump to the lesson videos.

Date: _____

Re-Engage

Unit 1 Lessons 1-2a: Read and Write Numbers in Standard Form to the Thousandths Place



Student Practice

Directions: Write the decimal in standard form.

1. seven and nine tenths

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

2. fourteen and eight hundred seventy-two thousandths

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

3. twenty-seven and fifteen hundredths

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

4. four and eighteen thousandths

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

5. ninety-one and seven tenths

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

6. fifty-three and eight hundred thirty-one thousandths

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

Re-Engage

Unit 1 Lesson 1-2b: Read and Write Numbers in Word Form to the Thousandths Place

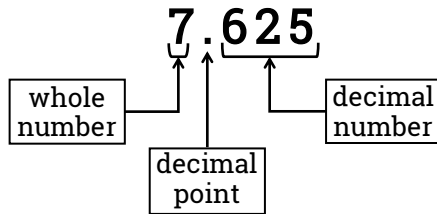


Name: _____

Date: _____

Model

Write in word form.



| THOUSANDS | | | ONES | | | | DECIMALS | | |
|---------------|------|------|----------|------|------|---------------|------------------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | 7 | • | 6 | 2 | 5 |
| whole numbers | | | | | | | parts of a whole | | |

- Write the whole number. → seven
- Write "and" to represent the decimal. → seven and
- Write the decimal number. → seven and six hundred twenty-five
- Use the place value chart to identify the last digit's place value. 5 is in the thousandths place, so write "thousandths" at the end of the number. → thousandths

Use the word bank on the next page as a spelling resource.

Structured Guided Practice

Directions: Write the decimal in word form.

1. 57.81

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

2. 3.241

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

3. 17.09

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

4. 5.057

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

Re-Engage

Unit 1 Lesson 1-2b: Read and Write Numbers in Word Form to the Thousandths Place



Student Practice

Directions: Write the decimal in word form.

1. 2.578

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

2. 32.8

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

3. 14.13

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

4. 7.077

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

5. 28.479

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

6. 9.49

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

Number words:

| | | | | | |
|---|-------|----|-----------|----|---------|
| 0 | zero | 10 | ten | 30 | thirty |
| 1 | one | 11 | eleven | 40 | forty |
| 2 | two | 12 | twelve | 50 | fifty |
| 3 | three | 13 | thirteen | 60 | sixty |
| 4 | four | 14 | fourteen | 70 | seventy |
| 5 | five | 15 | fifteen | 80 | eighty |
| 6 | six | 16 | sixteen | 90 | ninety |
| 7 | seven | 17 | seventeen | | |
| 8 | eight | 18 | eighteen | | |
| 9 | nine | 19 | nineteen | | |
| | | 20 | twenty | | |

Extra Practice

Unit 1 Lessons 1-2: Read and Write Numbers to the Thousandths



Name: _____

Date: _____

Directions: Use the place value chart. Write the number.

- Write the standard form for twelve and fifty-eight hundredths.

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

- Write the word form for 89.347

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

- Write the word form for 5.009

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

- Write the standard form for two and one hundred fifty-three thousandths.

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

Extra Practice

Unit 1 Lessons 1-2: Read and Write Numbers to the Thousandths



Directions: Use the place value chart. Write the number.

5. Write the standard form for sixty-four and three hundred seventy-five thousandths.

6. Write the word form for 15.73

7. Write the standard form for five hundred thirty-eight thousandths.

8. Write the word form for 51.092

Re-Engage

Unit 1 Lessons 3-4: Write Decimals in Expanded Form to the Thousandths Place



Name: _____

Date: _____

Model

To write decimals in expanded form, multiply each digit by its place value.

$$23.145$$

$$(2 \times 10) + (3 \times 1) + (1 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (5 \times \frac{1}{1000})$$

Discuss place value and value. The 4 is in the hundredths place. Its value is .04, "four hundredths."

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|--------------------------|-------------------------------|---------------------------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | $\frac{1}{10}$ Tenths | $\frac{1}{100}$ Hundredths | $\frac{1}{1000}$ Thousandths |
| | | | | 2 | 3 | • | 1 | 4 | 5 |

Structured Guided Practice

Directions: Write the decimal in expanded form.

1. 27.43

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

standard form

$$27.43$$

$$(\quad) + (\quad) + (\quad) + (\quad)$$

expanded form

2. 5.024

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

standard form

$$5.024$$

$$(\quad) + (\quad) + (\quad) + (\quad)$$

expanded form

Re-Engage

Unit 1 Lessons 3-4: Write Decimals in Expanded Form to the Thousandths Place



Student Practice

Directions: Write the decimal in expanded form.

1. 34.167

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

standard form

$$34.167$$

$$(\quad) + (\quad) + (\quad) + (\quad) + (\quad)$$

expanded form

2. 8.094

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

standard form

$$8.094$$

$$(\quad) + (\quad) + (\quad) + (\quad)$$

expanded form

3. 42.487

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

standard form

$$42.487$$

$$(\quad) + (\quad) + (\quad) + (\quad) + (\quad)$$

expanded form

4. 15.1

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

standard form

$$15.1$$

$$(\quad) + (\quad) + (\quad)$$

expanded form

Extra Practice

Unit 1 Lessons 3-4: Expanded Form to the Thousandths



Name: _____

Date: _____

Directions: Use the place value chart. Write the number.

- Write $(7 \times 100) + (5 \times 10) + (3 \times 1) + [3 \times (1/10)] + [7 \times (1/100)] + [7 \times (1/1000)]$ in standard form using the place value chart.

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|--------------------------|-------------------------------|---------------------------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | $\frac{1}{10}$ Tenths | $\frac{1}{100}$ Hundredths | $\frac{1}{1000}$ Thousandths |
| | | | | | | • | | | |

- Write 523.612 in expanded form using the place value chart.

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

- Write 907.104 in expanded form using the place value chart.

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

- Write $(1 \times 100) + (9 \times 10) + (4 \times 1) + [6 \times (1/100)] + [5 \times (1/1000)]$ in standard form using the place value chart.

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

Extra Practice

Unit 1 Lessons 3-4: Expanded Form to the Thousandths



Directions: Use the place value chart. Write the number.

5. Write 3.601 in expanded form using the place value chart.

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

6. Write $(2 \times 100) + (8 \times 1) + [3 \times (1/10)] + [8 \times (1/100)] + [2 \times (1/1000)]$ in standard form using the place value chart.

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

7. Write $(4 \times 10) + (7 \times 1) + [6 \times (1/10)] + [5 \times (1/100)] + [2 \times (1/1000)]$ in standard form using the place value chart.

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

8. Write 419.714 in expanded form using the place value chart.

| THOUSANDS | | | ONES | | | | DECIMALS | | |
|-----------|------|------|----------|------|------|---------------|----------|------------|-------------|
| Hundreds | Tens | Ones | Hundreds | Tens | Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | | | | | | • | | | |

Reteach

Unit 1 Lessons 7-8a: Multiply by Multiples of Tens and Hundreds



Name: _____

Date: _____

Model

$$50 \times 300$$

Multiply the basic fact.

$$5 \times 3 = 15$$

Count the zeros.

$$5 \underline{0} \times 3 \underline{0} \underline{0}$$

3 zeros

Write the zeros after the basic fact.

$$15, \underline{0} \underline{0} \underline{0}$$

The product of 50×300 is 15,000.

The 3 number zeros represent 1,000 value.

15,000 product is 1,000 times greater than 15 basic fact.

Structured Guided Practice

Directions: Find the product. Complete the sentences.

1. 20×800

Multiply the basic fact.

Count the zeros.

Write the zeros after the basic fact.

| | | |
|--|--|--|
| | | |
|--|--|--|

The product of 20×800 is _____. The _____ number zeros represent _____ value.

_____ product is _____ times greater than _____ basic fact.

2. 400×50

Multiply the basic fact.

Count the zeros.

Write the zeros after the basic fact.

| | | |
|--|--|--|
| | | |
|--|--|--|

The product of 400×50 is _____. The _____ number zeros represent _____ value.

_____ product is _____ times greater than _____ basic fact.

Reteach

Unit 1 Lessons 7-8a: Multiply by Multiples of Tens and Hundreds



Student Practice

Directions: Find the product. Complete the sentences.

1. 40×600

Multiply the basic fact.

Count the zeros.

Write the zeros after the basic fact.

| | | |
|--|--|--|
| | | |
|--|--|--|

The product of 40×600 is _____. The _____ zeros represent _____.

number

value

_____ is _____ times greater than _____.

product

basic fact

2. 300×70

Multiply the basic fact.

Count the zeros.

Write the zeros after the basic fact.

| | | |
|--|--|--|
| | | |
|--|--|--|

The product of 300×70 is _____. The _____ zeros represent _____.

number

value

_____ is _____ times greater than _____.

product

basic fact

3. 90×20

Multiply the basic fact.

Count the zeros.

Write the zeros after the basic fact.

| | | |
|--|--|--|
| | | |
|--|--|--|

The product of 90×20 is _____. The _____ zeros represent _____.

number

value

_____ is _____ times greater than _____.

product

basic fact

4. 200×400

Multiply the basic fact.

Count the zeros.

Write the zeros after the basic fact.

| | | |
|--|--|--|
| | | |
|--|--|--|

The product of 200×400 is _____. The _____ zeros represent _____.

number

value

_____ is _____ times greater than _____.

product

basic fact

Re-Engage

Unit 1 Lessons 7-8b: Multiply Whole Numbers By Powers of Ten



Name: _____

Date: _____

Model

$$478 \times 10^4$$

10^5
↑
base
↖
exponent

10^4 is the same as 10,000

Rewrite and multiply:

$$10^4 = \frac{10 \times 10 \times 10 \times 10}{100 \times 100} = 10,000$$

$$478 \times \frac{10,000}{10^4} = \frac{4,780,000}{\text{Add } 4 \text{ zeros}}$$

The product of 478×10^4 is 4,780,000.

4,780,000 is 10,000 times greater than 478.
product

Structured Guided Practice

Directions: Find the product. Complete the sentences.

1. $2,724 \times 10^4$

10^4 is the same as _____

$$10^4 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$

Rewrite and multiply:

$$2,724 \times \frac{\quad}{10^4} = \frac{\quad}{\text{Add } \quad \text{zeros}}$$

The product of $2,724 \times 10^4$ is _____.

_____ is _____ times greater than 2,724.
product

2. 837×10^3

10^3 is the same as _____

$$10^3 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$

Rewrite and multiply:

$$837 \times \frac{\quad}{10^3} = \frac{\quad}{\text{Add } \quad \text{zeros}}$$

The product of 837×10^3 is _____.

_____ is _____ times greater than 837.
product

Re-Engage

Unit 1 Lessons 7-8b: Multiply Whole Numbers By Powers of Ten



Student Practice

Directions: Find the product. Complete the sentences.

1. $9,877 \times 10^4$

10^4 is the same as _____

$10^4 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$

Rewrite and multiply:

$9,877 \times \frac{\quad}{10^4} = \frac{\quad}{\text{Add } \underline{\quad} \text{ zeros}}$

The product of $9,877 \times 10^4$ is _____.

_____ is _____ times greater than 9,877.
product

2. 68×10^5

10^5 is the same as _____

$10^5 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$

Rewrite and multiply:

$68 \times \frac{\quad}{10^5} = \frac{\quad}{\text{Add } \underline{\quad} \text{ zeros}}$

The product of 68×10^5 is _____.

_____ is _____ times greater than 68.
product

3. 901×10^5

10^5 is the same as _____

$10^5 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$

Rewrite and multiply:

$901 \times \frac{\quad}{10^5} = \frac{\quad}{\text{Add } \underline{\quad} \text{ zeros}}$

The product of 901×10^5 is _____.

_____ is _____ times greater than 901.
product

4. $8,440 \times 10^3$

10^3 is the same as _____

$10^3 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$

Rewrite and multiply:

$8,440 \times \frac{\quad}{10^3} = \frac{\quad}{\text{Add } \underline{\quad} \text{ zeros}}$

The product of $8,440 \times 10^3$ is _____.

_____ is _____ times greater than 8,440.
product

Re-Engage

Unit 1 Lesson 7-8c: Multi-Step Multiplication of Whole Numbers by Powers of Ten



Name: _____

Date: _____

Model

$$3 \times 10^3 \times 4$$

Multiply the factors without exponents.

10^3 is the same as 1,000.

Rewrite and multiply:

| | | |
|-------------------|--|---|
| $3 \times 4 = 12$ | $10^3 = \begin{array}{c} \underline{10} \times \underline{10} \times \underline{10} \\ \swarrow \quad \searrow \\ 100 \times 10 \\ \swarrow \quad \searrow \\ 1,000 \end{array}$ | $\underline{12} \times \frac{\underline{1,000}}{10^3} = \frac{\underline{12,000}}{\text{Add } \underline{3} \text{ zeros}}$ |
|-------------------|--|---|

The product of $3 \times 10^3 \times 4$ is 12,000.

12,000 is 1,000 times greater than 12.

product basic fact

Structured Guided Practice

Directions: Find the product. Complete the sentences.

1. $4 \times 10^3 \times 7$

Multiply the factors without exponents.

10^3 is the same as _____.

Rewrite and multiply:

| | | |
|--|--|---|
| | $10^3 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$ | $\underline{\quad} \times \frac{\underline{\quad}}{10^3} = \underline{\quad}$ Add ____ zeros |
|--|--|---|

The product of $4 \times 10^3 \times 7$ is _____. _____ is _____ times greater than _____.

product basic fact

2. $3 \times 10^4 \times 8$

Multiply the factors without exponents.

10^4 is the same as _____.

Rewrite and multiply:

| | | |
|--|---|---|
| | $10^4 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$ | $\underline{\quad} \times \frac{\underline{\quad}}{10^4} = \underline{\quad}$ Add ____ zeros |
|--|---|---|

The product of $3 \times 10^4 \times 8$ is _____. _____ is _____ times greater than _____.

Re-Engage

Unit 1 Lesson 7-8c: Multi-Step Multiplication of Whole Numbers by Powers of Ten



Student Practice

Directions: Find the product. Complete the sentences.

1. $8 \times 10^3 \times 3$

Multiply the factors without exponents.

10^3 is the same as _____.

Rewrite and multiply:

| | | |
|--|--|---|
| | $10^3 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$ | $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ 10^3 Add ____ zeros |
|--|--|---|

The product of $8 \times 10^3 \times 3$ is _____. _____ is _____ times greater than _____.
product basic fact

2. $7 \times 10^5 \times 8$

Multiply the factors without exponents.

10^5 is the same as _____.

Rewrite and multiply:

| | | |
|--|--|---|
| | $10^5 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$ | $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ 10^5 Add ____ zeros |
|--|--|---|

The product of $7 \times 10^5 \times 8$ is _____. _____ is _____ times greater than _____.
product basic fact

3. $6 \times 10^3 \times 9$

Multiply the factors without exponents.

10^3 is the same as _____.

Rewrite and multiply:

| | | |
|--|--|---|
| | $10^3 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$ | $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ 10^3 Add ____ zeros |
|--|--|---|

The product of $6 \times 10^3 \times 9$ is _____. _____ is _____ times greater than _____.
product basic fact

4. $5 \times 10^4 \times 7$

Multiply the factors without exponents.

10^4 is the same as _____.

Rewrite and multiply:

| | | |
|--|---|---|
| | $10^4 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$ | $\underline{\quad} \times \underline{\quad} = \underline{\quad}$ 10^4 Add ____ zeros |
|--|---|---|

The product of $5 \times 10^4 \times 7$ is _____. _____ is _____ times greater than _____.
product basic fact

Extra Practice

Unit 1 Lessons 7-8: Powers of 10 with Whole Numbers



Name: _____

Date: _____

Directions: Multiply by powers of ten. Explain the pattern of zeros.

1. 40×200

2. 120×40

3. $5 \times 10^2 \times 80$

4. 58×10^6

Extra Practice

Unit 1 Lessons 7-8: Powers of 10 with Whole Numbers



Directions: Multiply by powers of ten. Explain the pattern of zeros.

5. $20 \times 40 \times 10^3$

6. $1,500 \times 10^4$

7. 420×10^5

8. $70 \times 80 \times 10^2$

Re-Engage

Unit 1 Lessons 9-10a: Multiply Decimals by Powers of Ten



Name: _____

Date: _____

Model

$$3.52 \times 10^4$$

$$10^5$$

↑ base
↖ exponent

10^4 is the same as 10,000

Rewrite and multiply:

$$10^4 = \frac{10 \times 10 \times 10 \times 10}{100 \times 100} = 10,000$$

$$3.52 \times \frac{10,000}{10^4} = \frac{3.5200}{10^4}$$

Move the decimal 4 places to the right →

The product of 3.52×10^4 is 35,200.

35,200 is 10,000 times greater than 3.52.
product

Structured Guided Practice

Directions: Find the product. Complete the sentences.

1. 0.926×10^4

10^4 is the same as _____

$$10^4 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$

Rewrite and multiply:

$$0.926 \times \frac{\quad}{10^4} = \frac{\quad}{\quad}$$

Move the decimal _____ places to the right

The product of 0.926×10^4 is _____.

_____ is _____ times greater than 0.926.
product

2. 4.08×10^3

10^3 is the same as _____

$$10^3 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$

Rewrite and multiply:

$$4.08 \times \frac{\quad}{10^3} = \frac{\quad}{\quad}$$

Move the decimal _____ places to the right

The product of 4.08×10^3 is _____.

_____ is _____ times greater than 4.08.
product

Re-Engage

Unit 1 Lessons 9-10a: Multiply Decimals by Powers of Ten



Student Practice

Directions: Find the product. Complete the sentences.

1. 2.8×10^4

10^4 is the same as _____

$10^4 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$

Rewrite and multiply:

$2.8 \times \frac{\quad}{10^4} = \frac{\quad}{\quad}$ Move the decimal ____ places to the right

The product of 2.8×10^4 is _____.

_____ is _____ times greater than 2.8
product

2. 0.36×10^5

10^5 is the same as _____

$10^5 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$

Rewrite and multiply:

$0.36 \times \frac{\quad}{10^5} = \frac{\quad}{\quad}$ Move the decimal ____ places to the right

The product of 0.36×10^5 is _____.

_____ is _____ times greater than 0.36.
product

3. 24.1×10^3

10^3 is the same as _____

$10^3 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$

Rewrite and multiply:

$24.1 \times \frac{\quad}{10^3} = \frac{\quad}{\quad}$ Move the decimal ____ places to the right

The product of 24.1×10^3 is _____.

_____ is _____ times greater than 24.1.
product

4. 5.61×10^5

10^5 is the same as _____

$10^5 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$

Rewrite and multiply:

$5.61 \times \frac{\quad}{10^5} = \frac{\quad}{\quad}$ Move the decimal ____ places to the right

The product of 5.61×10^5 is _____.

_____ is _____ times greater than 5.61.
product

Re-Engage

Unit 1 Lessons 9-10b: Divide Decimals by Powers of Ten



Name: _____

Date: _____

Model

$$352 \div 10^4$$

$$10^5 \begin{array}{l} \swarrow \text{exponent} \\ \uparrow \text{base} \end{array}$$

10^4 is the same as 10,000

Rewrite and divide:

$$10^4 = \frac{10 \times 10 \times 10 \times 10}{100 \times 100} = 10,000$$

$$352 \div \frac{10,000}{10^4} = \frac{0.0352}{1} \quad \text{Move the decimal } \underline{4} \text{ places to the left}$$

The quotient of $352 \div 10^4$ is 0.0352.

0.0352 is 10,000 times less than 352.
quotient

Structured Guided Practice

Directions: Find the product. Complete the sentences.

1. $72.27 \div 10^4$

10^4 is the same as _____

$$10^4 = \underline{\quad} \times \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$

Rewrite and divide:

$$72.27 \div \frac{\quad}{10^4} = \frac{\quad}{\quad} \quad \text{Move the decimal } \underline{\quad} \text{ places to the left}$$

The quotient of $72.27 \div 10^4$ is _____.

 is times less than 72.27.
quotient

2. $7.08 \div 10^3$

10^3 is the same as _____

$$10^3 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$$

Rewrite and divide:

$$7.08 \div \frac{\quad}{10^3} = \frac{\quad}{\quad} \quad \text{Move the decimal } \underline{\quad} \text{ places to the left}$$

The quotient of $7.08 \div 10^3$ is _____.

 is times less than 7.08.
quotient

Re-Engage

Unit 1 Lessons 9-10b: Divide Decimals by Powers of Ten



Student Practice

Directions: Find the product. Complete the sentences.

1. $910.8 \div 10^3$

10^3 is the same as _____

$10^3 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$

Rewrite and divide:

$910.8 \div \frac{\quad}{10^3} = \frac{\quad}{\quad}$ Move the decimal ____ places to the left

The quotient of $910.8 \div 10^3$ is _____.

_____ is _____ times less than 910.8
quotient

2. $3.6 \div 10^3$

10^3 is the same as _____

$10^3 = \underline{\quad} \times \underline{\quad} \times \underline{\quad}$

Rewrite and divide:

$3.6 \div \frac{\quad}{10^3} = \frac{\quad}{\quad}$ Move the decimal ____ places to the left

The quotient of $3.6 \div 10^3$ is _____.

_____ is _____ times less than 3.6.
quotient

3. $45 \div 10^2$

10^2 is the same as _____

$10^2 = \underline{\quad} \times \underline{\quad}$

Rewrite and divide:

$45 \div \frac{\quad}{10^2} = \frac{\quad}{\quad}$ Move the decimal ____ places to the left

The quotient of $45 \div 10^2$ is _____.

_____ is _____ times less than 45.
quotient

4. $43.27 \div 10^2$

10^2 is the same as _____

$10^2 = \underline{\quad} \times \underline{\quad}$

Rewrite and divide:

$43.27 \div \frac{\quad}{10^2} = \frac{\quad}{\quad}$ Move the decimal ____ places to the left

The quotient of $43.27 \div 10^2$ is _____.

_____ is _____ times less than 43.27.
quotient

Extra Practice

Unit 1 Lessons 9-10: Powers of Ten with Decimals



Name: _____

Date: _____

Directions: Multiply or divide by powers of ten.
Explain the pattern of the zeros and decimal point.

1. 0.28×10^3

2. 8.05×100

3. $4.5 \div 1,000$

4. $38.79 \div 10^4$

Extra Practice

Unit 1 Lessons 9-10: Powers of Ten with Decimals



Directions: Multiply or divide by powers of ten.
Explain the pattern of the zeros and decimal point.

5. 9.23×10^3

6. $7.6 \div 10^2$

7. 1.9876×10^4

8. $14.8 \div 1000$

Re-Engage

Unit 1 Lessons 11-12: Compare Decimals



Name: _____

Date: _____

Model

= equal to
< less than
> greater than

2.43 0.9

| ONE | | DECIMALS | | |
|------|---------------|----------------|-----------------|------------------|
| | | $\frac{1}{10}$ | $\frac{1}{100}$ | $\frac{1}{1000}$ |
| Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| 2 | • | 4 | 3 | |
| 0 | • | 9 | | |

Steps:

- Write the decimals in the place value chart. For 2.43, 2 is in the ones place, 4 is in the tenths place, and 3 is in the hundredths place. For 0.9, 0 is in the ones place and 9 is in the tenths place.
- Starting with the place value farthest to the left, compare the digits. Since 2 is greater than 0, 2.43 is greater than 0.9 or 2.43 0.9.

Structured Guided Practice

Directions: Compare the decimals.

1.

0.81 0.081

| ONE | | DECIMALS | | |
|------|---------------|----------------|-----------------|------------------|
| | | $\frac{1}{10}$ | $\frac{1}{100}$ | $\frac{1}{1000}$ |
| Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | • | | | |
| | • | | | |

2.

1.10 1.01

| ONE | | DECIMALS | | |
|------|---------------|----------------|-----------------|------------------|
| | | $\frac{1}{10}$ | $\frac{1}{100}$ | $\frac{1}{1000}$ |
| Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | • | | | |
| | • | | | |

3.

4.31 4.301

| ONE | | DECIMALS | | |
|------|---------------|----------------|-----------------|------------------|
| | | $\frac{1}{10}$ | $\frac{1}{100}$ | $\frac{1}{1000}$ |
| Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | • | | | |
| | • | | | |

4.

0.002 0.02

| ONE | | DECIMALS | | |
|------|---------------|----------------|-----------------|------------------|
| | | $\frac{1}{10}$ | $\frac{1}{100}$ | $\frac{1}{1000}$ |
| Ones | Decimal Point | Tenths | Hundredths | Thousandths |
| | • | | | |
| | • | | | |

Re-Engage

Unit 1 Lessons 11-12: Compare Decimals



Student Practice

Directions: Compare the decimals.

1.

$$0.401 \square 0.40$$

| ONE | | DECIMALS | | |
|------|---------------|----------------|-----------------|------------------|
| Ones | Decimal Point | $\frac{1}{10}$ | $\frac{1}{100}$ | $\frac{1}{1000}$ |
| | | Tenths | Hundredths | Thousandths |
| | • | | | |
| | • | | | |

2.

$$1.3 \square 0.9$$

| ONE | | DECIMALS | | |
|------|---------------|----------------|-----------------|------------------|
| Ones | Decimal Point | $\frac{1}{10}$ | $\frac{1}{100}$ | $\frac{1}{1000}$ |
| | | Tenths | Hundredths | Thousandths |
| | • | | | |
| | • | | | |

3.

$$2.04 \square 2.4$$

| ONE | | DECIMALS | | |
|------|---------------|----------------|-----------------|------------------|
| Ones | Decimal Point | $\frac{1}{10}$ | $\frac{1}{100}$ | $\frac{1}{1000}$ |
| | | Tenths | Hundredths | Thousandths |
| | • | | | |
| | • | | | |

4.

$$1.101 \square 1.11$$

| ONE | | DECIMALS | | |
|------|---------------|----------------|-----------------|------------------|
| Ones | Decimal Point | $\frac{1}{10}$ | $\frac{1}{100}$ | $\frac{1}{1000}$ |
| | | Tenths | Hundredths | Thousandths |
| | • | | | |
| | • | | | |

5.

$$0.81 \square 0.801$$

| ONE | | DECIMALS | | |
|------|---------------|----------------|-----------------|------------------|
| Ones | Decimal Point | $\frac{1}{10}$ | $\frac{1}{100}$ | $\frac{1}{1000}$ |
| | | Tenths | Hundredths | Thousandths |
| | • | | | |
| | • | | | |

6.

$$2.03 \square 0.845$$

| ONE | | DECIMALS | | |
|------|---------------|----------------|-----------------|------------------|
| Ones | Decimal Point | $\frac{1}{10}$ | $\frac{1}{100}$ | $\frac{1}{1000}$ |
| | | Tenths | Hundredths | Thousandths |
| | • | | | |
| | • | | | |

Extra Practice

Unit 1 Lessons 11-12: Compare Decimals



Name: _____

Date: _____

Directions: Compare the decimals using either the = , < , or > symbol.

1. Compare 0.979 and 1.13

2. Compare 0.303 and 0.33

3. Compare 0.02 and 0.005

4. Compare 0.512 and 0.511

Extra Practice

Unit 1 Lessons 11-12: Compare Decimals



Directions: Compare the decimals using either the = , < , or > symbol.

5. Compare 800.01 and 8000.1

6. Compare 10.01 and 9.999

7. Compare 2 and 0.94

8. Compare 0.397 and 0.42