

CHECK IN 3.NR.1

3.NR.1.1

A. Circle the expanded form for each number below.

1. **78** a. $7 + 8$ b. $700 + 8$ c. $70 + 8$

2. **903** a. $90 + 3$ b. $900 + 3$ c. $9 + 3$

B. Circle the standard form for each number below.

3. **$30 + 9 =$** _____ a. 93 b. 39 c. 309

4. **$40 + 5 =$** _____ a. 54 b. 405 c. 45

5. Molly wrote the expanded form for 415 as $40 + 10 + 5$. Mrs. Willis marked her answer as incorrect.

What is the correct answer? _____

3.NR.1.2

C. Circle the answer when comparing each set of numbers.

5. Compare: $67 \bigcirc 65$ a. $>$ b. $<$ c. $=$

6. Compare: $31 \bigcirc 33$ a. $>$ b. $<$ c. $=$

7. Compare: $2,563 \bigcirc 2,533$ a. $>$ b. $<$ c. $=$

3.NR.1.3

D. Circle the correct answer following the rounding rules.

8. Round 602 to the nearest hundred.

A. 700 B. 500 C. 800 D. 600

3.NR.1.1 Read and Write Multi-Digit Whole Numbers

Expectations: Read and write multi-digit whole numbers up to 10,000 to the thousands using base-ten numerals and expanded form.

Learn About It!

When we count numbers, we start with 0,1,2,3, and continue on. These numbers are **whole numbers**. There are three different ways that whole numbers can be written: **standard form (base-ten numeral), word form (number name), and expanded form. In third grade we will focus on standard form and expanded form.**

See It!

See the three ways that whole numbers can be written:

- standard form (base ten form)
- word form
- expanded form

Standard Form:

This is the “usual” way we see numbers: 4,278.

This is the standard form, or the base-ten, numeral.

3.NR.1.1 Read and Write Multi-Digit Whole Numbers

Standard form (base-ten numeral)

Let's look at this number in its expanded form: 4,278

The **4 in the thousands place** is worth **4,000**.

The **2 in the hundreds place** is worth **200**.

The **7 in the tens place** is worth **70**.

The **8 in the ones place** is worth **8**.

Expanded form 4,000 + 200 + 70 + 8



Let's look at this number in its expanded form: 1,849

The **1 in the thousands place** is worth **1,000**.

The **8 in the hundreds place** is worth **800**.

The **4 in the tens place** is worth **40**.

The **9 in the ones place** is worth **9**.

Expanded form 1,000 + 800 + 40 + 9



3.NR.1.1 Read and Write Multi-Digit Whole Numbers

Let's start with two-digit numbers

87 We say "eighty-seven"

What is the "8" worth? **80** What is the "7" worth? **7**

Expanded form: **80 + 7**

62 We say "sixty-two"

What is the "6" worth? **60** What is the "2" worth? **2**

Expanded form: **60 + 2**

39 We say "thirty-nine"

What is the "3" worth? **30** What is the "9" worth? **9**

Expanded form: **30 + 9**

27 We say "twenty-seven"

What is the "2" worth? **20** What is the "7" worth? **7**

Expanded form: **20 + 7**

53 We say "fifty-three"

What is the "5" worth? **50** What is the "3" worth? **3**

Expanded form: **50 + 3**

3.NR.1.1 Read and Write Multi-Digit Whole Numbers

Practice It!

A. Write each whole number below in expanded form:

1. $78 = \underline{\quad} + \underline{\quad}$ 5. $34 = \underline{\quad} + \underline{\quad}$

2. $45 = \underline{\quad} + \underline{\quad}$ 6. $27 = \underline{\quad} + \underline{\quad}$

3. $81 = \underline{\quad} + \underline{\quad}$ 7. $62 = \underline{\quad} + \underline{\quad}$

4. $93 = \underline{\quad} + \underline{\quad}$ 8. $14 = \underline{\quad} + \underline{\quad}$

B. Circle the answer that matches each description below.

9. 6 tens and 2 ones = $\underline{\quad}$

A. 26 B. 620 C. 62

10. 7 tens and 8 ones = $\underline{\quad}$

A. 807 B. 78 C. 87

11. 9 tens and 0 ones = $\underline{\quad}$

A. 90 B. 900 C. 9

12. 2 tens and 9 ones = $\underline{\quad}$

A. 92 B. 29 C. 290

3.NR.1.1 Read and Write Multi-Digit Whole Numbers

Let's Try Three-Digit Numbers

437 *We say "four hundred thirty-seven" when we see this number*

What is the "4" worth? 400

What is the "3" worth? 30

What is the "7" worth? 7

Expanded form: $400 + 30 + 7$

182 *We say "one hundred eighty-two" when we see this number*

What is the "1" worth? 100

What is the "8" worth? 80

What is the "2" worth? 2

Expanded form: $100 + 80 + 2$

631 *We say "six hundred thirty-one" when we see this number*

What is the "6" worth? 600

What is the "3" worth? 30

What is the "1" worth? 1

Expanded form: $600 + 30 + 1$

3.NR.1.1 Read and Write Multi-Digit Whole Numbers

Practice It!

A. Write each whole number below in expanded form:

1. $723 = \underline{\quad\quad\quad} + \underline{\quad\quad\quad} + \underline{\quad\quad\quad}$

2. $146 = \underline{\quad\quad\quad} + \underline{\quad\quad\quad} + \underline{\quad\quad\quad}$

3. $561 = \underline{\quad\quad\quad} + \underline{\quad\quad\quad} + \underline{\quad\quad\quad}$

4. $278 = \underline{\quad\quad\quad} + \underline{\quad\quad\quad} + \underline{\quad\quad\quad}$

B. Circle the answer that matches each description below.

5. **3 hundreds, 5 tens and 2 ones =**

A. 532 **B.** 352 **C.** 253

6. **8 hundreds, 1 ten and 8 ones =**

A. 801 **B.** 881 **C.** 818

7. **2 hundreds, 7 tens and 3 ones =**

A. 273 **B.** 732 **C.** 372

8. **9 hundreds, 4 tens and 0 ones =**

A. 904 **B.** 049 **C.** 940

3.NR.1.1 Read and Write Multi-Digit Whole Numbers

Practice It!

A. Write each whole number below in **expanded form**.

1. 187

2. 395

3. 172

4. 618

B. Write each whole number below in **base-ten form**.

5. $400 + 70 + 8$

6. $500 + 20 + 9$

C. Follow each set of directions below.

7. There are 829 students enrolled in Eastern Elementary School.

Write the number 829 in **expanded form** below.

_____ + _____ + _____

8. A concert hall holds $7,000 + 600 + 20 + 1$ seats.

Write that number in **standard form** below.

_____, _____

3.NR.1.1 Read and Write Multi-Digit Whole Numbers

Practice It!

A. Write each whole number below in **expanded form**.

1. 3,567

2. 7,345

3. 2,119

4. 1,088

B. Write each whole number below in **base-ten form**.

5. 100 + 10 + 2

6. 8,000 + 300 + 70 + 9

C. Follow each set of directions below.

7. There are 567 students enrolled in Western Elementary School.

Write the number 567 in **expanded form** below.

_____ + _____ + _____

8. A football stadium holds $3,000 + 200 + 40 + 9$ seats.

Write that number in **standard form** below.

_____, _____

3.NR.1.1 Read and Write Multi-Digit Whole Numbers

Learn About It!

A **place value chart** can also help you read and write whole numbers. The **place value** of a number is the name of the position where the number is located. The place value position of the number will help you determine the **value**, or worth, of the number.

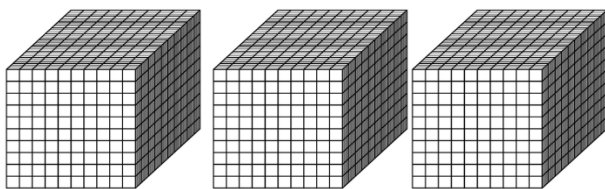
Place Value: Use a place value chart to help you determine the position of a number. The position will also help you determine the value or what the number is worth.

See It! Look at the place value chart below.

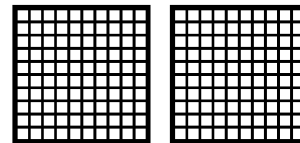
Thousands		Hundreds	Tens	Ones
3	,	2	7	9

Model It!

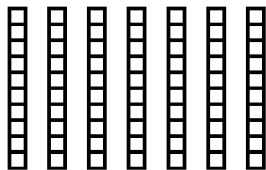
three thousand



two hundreds



seven tens



nine ones



3.NR.1.1 Read and Write Multi-Digit Whole Numbers

How to write a number in expanded form:

Learn About It!

When you write a number in **expanded form** you are writing the value of each digit. Once you find the value of each digit, you add that value to the value of the next digit.

See It! Look at the number 5,694

1. Find the values of each digit using the place value chart.

Thousands	,	Hundreds	Tens	Ones
5 x 1,000	,	6 x 100	9 x 10	4 x 1
5,000	,	600	90	4

2. Add the values of each digit to show expanded form.

Answer It!

$$5,000 + 600 + 90 + 4 = 5,694$$

You Try It! Write each number below in expanded form.

1. $1,639 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

2. $2,738 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

3. $7,195 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

4. $9,031 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$

3.NR.1.1 Read and Write Multi-Digit Whole Numbers

Matching

Match the standard form of the number on the left to the correct expanded form of the number on the right.

1. $700 + 30 + 2$

A. 852

2. $200 + 40 + 1$

B. 732

3. $800 + 50 + 2$

C. 128

4. $100 + 20 + 8$

D. 699

5. $600 + 90 + 9$

E. 241

6. Marley needed to match the standard form of 451 to the expanded form of that number. Here are Marley's choices:

A. $40 + 50 + 1$ B. $4 + 5 + 1$ C. $400 + 50 + 1$

Which answer should Marley choose? _____

Why? _____

3.NR.1.1 Read and Write Multi-Digit Whole Numbers

See It! Look at the number **6,253**

1. Find the values of each digit using the place value chart.

Thousands	,	Hundreds	Tens	Ones
6 x 1,000	,	2 x 100	5 x 10	3 x 1
6,000	,	200	50	3

2. Add the values of each digit to show expanded form.

Answer It! $6,000 + 200 + 50 + 3 = 6,253$

You Try It! Write each number below in expanded form.

1. $4,729 =$ _____

2. $1,632 =$ _____

3. $5,847 =$ _____

4. $8,007 =$ _____

Fill in the place value chart according to the directions

5. Place a "4" in the **hundreds** position.

6. Place a "7" in the **tens** position.

7. Place a "9" in the **thousands** position.

8. Place a "8" in the **ones** position.

Thousands	,	Hundreds	Tens	Ones
	,			

3.NR.1.1 Read and Write Multi-Digit Whole Numbers

Decomposing Numbers

Learn About It!

There are several different ways to decompose numbers. We can decompose numbers in expanded form. Even when decomposing numbers there is not just one way that is correct. Think about money. There are several ways to make the same amount of money. There can be more than one way to decompose numbers as well. When we bring those numbers back together, we are combining or composing the number.

See It!

Look at this three-digit number: 142

Expanded form: $100 + 40 + 2$ OR

Decomposing the numbers:

14 tens plus 2 ones OR 13 tens plus 12 ones

Let's Try Another One!

$165 = 100 + 60 + 5$ (expanded form)

Now write that in tens and ones:

16 tens plus 5 ones OR 15 tens plus 15 ones

You Try It! Decompose each number below.

1. $178 =$ _____

2. $234 =$ _____

3.NR.1.1 Read and Write Multi-Digit Whole Numbers

Practice It!

Circle the **TWO** correct answers for each problem below.

1. **345**

- a. $300 + 40 + 5$
- b. 3 tens + 45 ones
- c. $300 + 30 + 15$

2. **712**

- a. 7 hundreds + 1 ten + 2 ones
- b. $700 + 10 + 2$
- c. 7 tens + 1 ten + 2 ones

3. **126**

- a. 12 tens + 6 ones
- b. 11 tens + 26 ones
- c. 10 tens + 16 ones

4. **489**

- a. $400 + 80 + 9$
- b. $40 + 89$
- c. $400 + 70 + 19$

5. **561**

- a. $500 + 50 + 11$
- b. $500 + 60 + 1$
- c. 5 tens + 6 ones

3.NR.1.1 Read and Write Multi-Digit Whole Numbers

Real-World and Relevant with Constructed Response

A. Read About It!

Austin's **geography** class was **assigned** a project on the longest rivers in North America. Austin was assigned these rivers: the Missouri, the Mississippi, the Yukon, and the Rio Grande. His **task** was to find the **length** of each river. Austin **discovered** that the Missouri River is 2,341 miles long, the Mississippi River is 2,340 miles long, the Yukon River is 1,982 miles long, and the Rio Grande River is 1,885 miles long.

1. Write the length of each river in **expanded form**:

Mississippi River: _____

Yukon River: _____

Missouri River: _____

2. Which river has a length of **1,000 + 900 + 80 + 2** when written in **expanded form**?

B. Reading for Meaning

3. **What is the main idea of the story above?**

- a. Austin loves geography.
- b. The length of the Yukon River is 1,982 feet.
- c. Austin researched the rivers in North America.
- d. The Internet is a great tool for research projects.

3.NR.1.1 Read and Write Multi-Digit Whole Numbers

4. Who was doing a research project? _____

5. What was the topic of the research project? _____

C. Vocabulary Acquisition

6. Write a bold-faced word from the passage that means:

a. job or chore	
b. distance	
c. given	
d. natural features of land	
e. found	

D. Write About It! Opinion Writing

Write about why you think it IS or is NOT important to read numbers in standard and expanded form. What could happen if someone wasn't able to read numbers in these forms? Give real-world examples to support your answers.
