

Math 2-5: Number and Operations: Understand Place Value, Counting, Cardinality

Whole Numbers: Place Value

Students	Learning Continuum Statements:
Students:	RIT 151-160: <ul style="list-style-type: none">• Reads and writes whole numbers within 20 in word form• Represents whole numbers within 100 with models• Represents whole numbers within 20 with models
Students:	RIT 161-170: <ul style="list-style-type: none">• Knows place value names through hundred thousands• Reads and writes whole numbers within 1,000 as hundreds, tens, and ones• Reads and writes whole numbers within 1,000 in word form• Reads and writes whole numbers within 100 in word form• Reads and writes whole numbers within 20 in word form• Represents whole numbers within 1,000 with models• Represents whole numbers within 100 with models• Represents whole numbers within 20 with models
Students:	RIT 171-180: <ul style="list-style-type: none">• Composes or decomposes tens in a model to represent whole numbers within 20 in multiple ways• Identifies the number of tens and ones in a model• Knows place value names through hundred thousands• Reads and writes whole numbers within 1,000 as hundreds, tens, and ones• Reads and writes whole numbers within 1,000 in expanded form• Reads and writes whole numbers within 1,000 in word form• Reads and writes whole numbers within 10,000 in expanded form• Reads and writes whole numbers within 10,000 in word form• Reads and writes whole numbers within 100 as tens and ones• Reads and writes whole numbers within 100 in expanded form• Reads and writes whole numbers within 100 in word form• Represents whole numbers within 1,000 with models• Represents whole numbers within 100 with models• Understands the value of a digit in whole numbers within 1,000
Students:	RIT 181-190: <ul style="list-style-type: none">• Composes or decomposes tens in a model to represent whole numbers within 100 in multiple ways• Identifies the number of tens and ones in a model• Knows place value names through hundred thousands• Reads and writes whole numbers within 1,000 as hundreds, tens, and ones• Reads and writes whole numbers within 1,000 in expanded form• Reads and writes whole numbers within 1,000 in word form• Reads and writes whole numbers within 10,000 in expanded form• Reads and writes whole numbers within 100 as tens and ones• Reads and writes whole numbers within 100,000 in word form• Represents whole numbers within 1,000 with models• Understands the value of a digit in whole numbers within 1,000• Understands the value of a digit in whole numbers within 1,000,000

Students:**RIT 191-200:**

- Composes or decomposes tens in a model to represent whole numbers within 100 in multiple ways
- Knows place value names through hundred thousands
- Reads and writes whole numbers greater than 1,000,000 in word form
- Reads and writes whole numbers within 1,000 in expanded form
- Reads and writes whole numbers within 1,000,000 in word form
- Reads and writes whole numbers within 10,000 in expanded form
- Reads and writes whole numbers within 100 as tens and ones
- Reads and writes whole numbers within 100,000 in expanded form
- Reads and writes whole numbers within 100,000 in word form
- Represents whole numbers greater than 1,000 with models
- Represents whole numbers within 1,000 with models
- Understands the value of a digit in whole numbers within 1,000,000

Students:**RIT 201-210:**

- Decomposes whole numbers within 100 into tens and ones in multiple ways
- Knows place value names greater than hundred thousands
- Reads and writes whole numbers greater than 1,000,000 in word form
- Reads and writes whole numbers within 1,000,000 in expanded form
- Reads and writes whole numbers within 1,000,000 in word form
- Reads and writes whole numbers within 10,000 as thousands, hundreds, tens, and ones
- Reads and writes whole numbers within 100,000 in expanded form
- Reads and writes whole numbers within 100,000 in word form
- Represents whole numbers greater than 1,000 with models
- Understands patterns of zeros when multiplying by 10, 100, 1,000, etc.
- Understands that the same digit, moved one place to the left, now represents 10 times the value
- Understands the value of a digit in whole numbers greater than 1,000,000

Students:**RIT 211-220:**

- Decomposes whole numbers within 100 into tens and ones in multiple ways
- Reads and writes whole numbers greater than 1,000,000 in word form
- Reads and writes whole numbers within 1,000,000 in word form
- Reads and writes whole numbers within 100,000 in expanded form
- Understands patterns of zeros when multiplying by 10, 100, 1,000, etc.
- Understands that the same digit, moved one place to the left, now represents 10 times the value

Students:**RIT 221-230:**

- Decomposes whole numbers within 1,000 into hundreds, tens, and ones, in multiple ways
- Represents the value of digits in whole numbers using powers of 10 in exponential form
- Understands patterns of zeros when multiplying by 10, 100, 1,000, etc.
- Understands that the same digit, moved one place to the left, now represents 10 times the value
- Understands that the same digit, moved one place to the right, now represents $\frac{1}{10}$ the value

Students:**RIT 231-240:**

- Decomposes whole numbers within 1,000 into hundreds, tens, and ones, in multiple ways
- Represents the value of digits in whole numbers using powers of 10 in exponential form
- Understands that the same digit, moved one place to the left, now represents 10 times the value
- Understands that the same digit, moved one place to the right, now represents $\frac{1}{10}$ the value

Students:

RIT 241-250:

- Understands that the same digit, moved one place to the left, now represents 10 times the value
 - Understands that the same digit, moved one place to the right, now represents $1/10$ the value
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