

# Math DesCartes: Number Sense

## Skills: Number Theory Concepts

Students:	DesCartes Skills: <small>(Highlight the skills related to your chosen standard/concept)</small>
	<b>RIT Above 271:</b> <ul style="list-style-type: none"> <li>Identifies the least common multiple of numbers in their prime factored state</li> </ul>
	<b>RIT 251-260:</b> <ul style="list-style-type: none"> <li>Uses factor and multiple concepts to solve difficult problems</li> <li>Uses prime and relatively prime concepts to solve problems</li> <li>Solves problems using multiple number theory concepts (e.g., prime, GCF and LCM, multiples, factors)</li> </ul>
	<b>RIT 241-250:</b> <ul style="list-style-type: none"> <li>Determines the prime factorization of a number using powers</li> <li>Identifies the least common multiple of whole numbers</li> <li>Identifies the greatest common factor and least common multiple of multiple whole numbers</li> <li>Uses factor and multiple concepts to solve difficult problems</li> </ul>
	<b>RIT 231-240:</b> <ul style="list-style-type: none"> <li>Determines prime factorization of a number</li> <li>Applies rules of divisibility by 3's</li> <li>Applies rules of divisibility</li> </ul>
	<b>RIT 221-230:</b> <ul style="list-style-type: none"> <li>Recognizes characteristics of odd &amp; even numbers</li> <li>Determines factors of whole numbers</li> <li>Completes a factor tree for a number (prime factorization)</li> <li>Determines common denominators of fractions</li> <li>Identifies common factors of two or more numbers</li> <li>Identifies the greatest common factor of whole numbers</li> <li>Uses factor and multiple concepts to solve simple problems</li> <li>Uses divisibility concepts to solve problems</li> <li>Uses multiple number theory concepts to solve problems (e.g., factors, digits, odd/even, divisibility)</li> </ul>
	<b>RIT 211-220:</b> <ul style="list-style-type: none"> <li>Identifies numbers as prime</li> <li>Recognizes characteristics of odd &amp; even numbers</li> <li>Determines factors of whole numbers</li> <li>Completes a factor tree for a number (prime factorization)</li> <li>Determines multiples of a whole number</li> <li>Determines common multiples of whole numbers</li> <li>Applies rules of divisibility by 5's</li> <li>Identifies common factors of two or more numbers</li> <li>Identifies the greatest common factor of whole numbers</li> </ul>
	<b>RIT 201-210:</b> <ul style="list-style-type: none"> <li>Determines multiples of a whole number</li> <li>Determines common multiples of whole numbers</li> <li>Applies rules of divisibility by 5's</li> <li>Applies rules of divisibility by 2's</li> </ul>
	<b>RIT 191-200:</b> <ul style="list-style-type: none"> <li>Identifies numbers as composite</li> <li>Distinguishes between odd &amp; even numbers</li> <li>Counts and converts to dozens with models</li> <li>Converts to dozens without models</li> </ul>
	<b>RIT 181-190:</b> <ul style="list-style-type: none"> <li>Determines whether a set of objects has an odd or even number of elements</li> <li>Distinguishes between odd &amp; even numbers</li> <li>Counts and converts to dozens with models</li> <li>Converts to dozens without models</li> </ul>

**Lesson Title:**

**Standard/Concept for All:**

**For Students Ready for a Challenge:**

Lesson/Activity:

Resources:

Means of Assessment:

**For Most Students:**

Lesson/Activity:

Resources:

Means of Assessment:

**For Students Needing Extra Support:**

Lesson/Activity:

Resources:

Means of Assessment:

**Closure/Summary for All:**

