

# DesCartes: A Continuum of Learning®

## Mathematics

Goal: The Real and Complex Number Systems

**RIT Score Range:** < 161  
**Statements Last Updated:** Mar 10, 2014

Skills and Concepts to Develop (50% Probability*) < 161	Skills and Concepts to Introduce (27% Probability*) 161 - 170
Ratios and Proportional Relationships	Ratios and Proportional Relationships
	<ul style="list-style-type: none"> <li>• Completes a growing arithmetic pattern by naming missing members</li> </ul>
Perform Operations	Perform Operations
<ul style="list-style-type: none"> <li>• Uses models to construct whole number addition facts with addends through 10</li> <li>• Uses models to calculate whole number sums through 99</li> <li>• Adds two 1-digit numbers with sums to 10 in horizontal format</li> <li>• Adds 1-digit to multiple-digit number with no regrouping</li> <li>• Adds 1-digit to multiple-digit number with regrouping</li> </ul>	<ul style="list-style-type: none"> <li>• Uses a number line to construct addition facts with sums through 20 (whole numbers)</li> <li>• Uses models to calculate whole number sums through 99</li> <li>• Adds two 1-digit numbers with sums to 10 in horizontal format</li> <li>• Adds two 1-digit numbers with sums between 10 and 19 in horizontal format</li> <li>• Adds two 1-digit numbers with sums between 10 and 19 in vertical format</li> <li>• Adds multiple 1-digit numbers</li> <li>• Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens)</li> <li>• Adds 1-digit to multiple-digit number with no regrouping</li> <li>• Adds 1-digit to multiple-digit number with regrouping</li> <li>• Adds 2-digit numbers with no regrouping</li> <li>• Solves real-world whole number addition problems with sums to 20 (result unknown)</li> <li>• Subtracts two 1-digit numbers horizontally</li> <li>• Subtracts a 1-digit number from a 2-digit number that is less than 20 (whole numbers only)</li> <li>• Subtracts two 1-digit numbers vertically</li> <li>• Subtracts a 2-digit number from a 2-digit number, with no regrouping</li> <li>• Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12</li> <li>• Tells time to the nearest hour</li> <li>• Tells time to the nearest half hour</li> </ul>
Extend and Use Properties	Extend and Use Properties
<ul style="list-style-type: none"> <li>• Identifies whole numbers under 100 using base-10 blocks</li> <li>• Identifies the numerical and written name for whole numbers 11 to 20 (e.g., 15 is fifteen, and vice versa)</li> </ul>	<ul style="list-style-type: none"> <li>• Identifies whole numbers under 100 using base-10 blocks</li> <li>• Identifies the numerical and written name for whole numbers 11 to 20 (e.g., 15 is fifteen, and vice versa)</li> <li>• Counts 1 to 10 objects</li> <li>• Identifies missing numbers in a series through 100</li> <li>• Recognizes and generates equivalent forms for the same number using physical models for whole numbers 11 to 20</li> <li>• Orders whole numbers less than 10</li> <li>• Writes whole numbers in standard and expanded form through the tens</li> </ul>

### Explanatory Notes

\* At the range mid-point, this is the probability students would correctly answer items measuring these concepts and skills. Both data from test items and review by NWEA curriculum specialists are used to place Learning Continuum statements into appropriate RIT ranges. Blank cells indicate data are limited or unavailable for this range or document version.

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<i>New Vocabulary:</i> None	<i>New Vocabulary:</i> None
<i>New Signs and Symbols:</i> None	<i>New Signs and Symbols:</i> + addition, = is equal to, × multiplication, - subtraction, : used with time, variable

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