

## Math 6+: Computation and Problem Solving Whole Number Operations

### Whole Number: Multiplication and Division

Students	Learning Continuum Statements:
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| <b>Students:</b> | <b>RIT 161-170:</b> <ul style="list-style-type: none"><li>• Multiplies basic facts</li><li>• Multiplies one-digit whole numbers by multiples of 10 using models</li><li>• Represents whole-number multiplication using models</li></ul> |
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| <b>Students:</b> | <b>RIT 171-180:</b> <ul style="list-style-type: none"><li>• Multiplies basic facts</li><li>• Represents whole-number multiplication using models</li></ul> |
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| <b>Students:</b> | <b>RIT 181-190:</b> <ul style="list-style-type: none"><li>• Divides basic facts</li><li>• Multiplies basic facts</li><li>• Multiplies one-digit whole numbers by multiples of 10</li><li>• Multiplies two-digit whole numbers by two-digit whole numbers</li><li>• Represents whole-number multiplication using models</li></ul> |
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| <b>Students:</b> | <b>RIT 191-200:</b> <ul style="list-style-type: none"><li>• Divides basic facts</li><li>• Divides whole numbers up to four digits by one-digit divisors, without a remainder</li><li>• Multiplies basic facts</li><li>• Multiplies multi-digit whole numbers</li><li>• Multiplies one-digit whole numbers by multiples of 10</li><li>• Multiplies one-digit whole numbers by two-digit whole numbers</li><li>• Multiplies one-digit whole numbers by whole numbers with more than two digits</li><li>• Multiplies two-digit whole numbers by two-digit whole numbers</li></ul> |
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| <b>Students:</b> | <b>RIT 201-210:</b> <ul style="list-style-type: none"><li>• Decomposes numbers to simplify whole-number multiplication</li><li>• Divides basic facts</li><li>• Divides multi-digit whole numbers by one-digit divisors with no remainder using models</li><li>• Divides multi-digit whole numbers with three or more digits, without a remainder</li><li>• Divides whole numbers up to four digits by one-digit divisors, without a remainder</li><li>• Divides whole numbers up to four digits by two-digit divisors, without a remainder</li><li>• Divides whole numbers with more than four digits by two-digit divisors, without a remainder</li><li>• Estimates the range of the quotient when dividing multi-digit whole numbers</li><li>• Multiplies multi-digit whole numbers</li><li>• Multiplies one-digit whole numbers by two-digit whole numbers</li></ul> |
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- Multiplies one-digit whole numbers by whole numbers with more than two digits
- Multiplies three or more one-digit whole numbers
- Multiplies two-digit whole numbers by two-digit whole numbers

**Students:**

**RIT 211-220:**

- Decomposes numbers to simplify whole-number multiplication
- Divides multi-digit whole numbers by one-digit divisors with no remainder using models
- Divides multi-digit whole numbers with three or more digits, with a remainder
- Divides multi-digit whole numbers with three or more digits, without a remainder
- Divides whole numbers up to four digits by one-digit divisors, without a remainder
- Divides whole numbers up to four digits by two-digit divisors, with a remainder
- Divides whole numbers up to four digits by two-digit divisors, without a remainder
- Divides whole numbers with more than four digits by two-digit divisors, without a remainder
- Estimates the range of the quotient when dividing multi-digit whole numbers
- Multiplies multi-digit whole numbers
- Multiplies one-digit whole numbers by whole numbers with more than two digits
- Multiplies two-digit whole numbers by two-digit whole numbers

**Students:**

**RIT 221-230:**

- Decomposes numbers to simplify whole-number multiplication
- Divides multi-digit whole numbers with three or more digits, with a remainder
- Divides multi-digit whole numbers with three or more digits, without a remainder
- Divides whole numbers with more than four digits by two-digit divisors, without a remainder
- Estimates the range of the quotient when dividing multi-digit whole numbers
- Multiplies multi-digit whole numbers

**Students:**

**RIT 231-240:**

- Divides whole numbers with more than four digits by two-digit divisors, with a remainder