

Math 6+: Computation and Problem Solving

Whole Numbers: Represent and Solve Problems

Whole Numbers: Represent and Solve Word Problems

Students	Learning Continuum Statements:
Students:	RIT 151-160: <ul style="list-style-type: none">Represents one-step addition and subtraction word problems with objects, whole numbers within 20
Students:	RIT 161-170: <ul style="list-style-type: none">Determines the operation(s) needed to solve word problems involving whole numbersRepresents addition word problems involving three addends with expressions or equations, whole numbers within 20Represents one-step addition and subtraction word problems with objects, whole numbers within 20Represents one-step put-together word problems with expressions or equations, answer unknown and whole numbers within 20Solves one-step put-together word problems with result unknown, whole numbers within 100Solves one-step put-together word problems with result unknown, whole numbers within 20Solves one-step take-apart word problems with result unknown, whole numbers within 20
Students:	RIT 171-180: <ul style="list-style-type: none">Determines the operation(s) needed to solve word problems involving whole numbersRepresents one-step addition and subtraction word problems with expressions or equations, whole numbers within 100Represents one-step addition and subtraction word problems with objects, whole numbers within 20Represents one-step additive-comparison word problems with expressions or equations, whole numbers within 20Represents one-step equal-groups multiplication and division word problems with models, whole numbersRepresents one-step put-together word problems with expressions or equations, answer unknown and whole numbers within 20Represents one-step take-apart word problems with expressions or equations, answer unknown and whole numbers within 20Solves multi-step addition and subtraction word problems, whole numbers within 100Solves one-step additive-comparison word problems, whole numbers within 100Solves one-step additive-comparison word problems, whole numbers within 20Solves one-step equal-groups division word problems, whole numbers within 100Solves one-step equal-groups multiplication word problems, whole numbers with products within 100Solves one-step put-together word problems with result unknown, whole numbers within 100Solves one-step put-together word problems with result unknown, whole numbers within 20Solves one-step put-together word problems with start, change, or part unknown, whole numbers within 20

- Solves one-step take-apart word problems with result unknown, whole numbers within 20
- Solves one-step take-apart word problems with start, change, or part unknown, whole numbers within 100
- Solves put-together word problems involving three addends, whole numbers within 20

Students:

RIT 181-190:

- Determines the operation(s) needed to solve word problems involving whole numbers
- Estimates solutions to one-step word problems involving any of the four operations with whole numbers
- Represents multi-step addition and subtraction word problems with expressions or equations, whole numbers
- Represents one-step addition and subtraction word problems with expressions or equations, whole numbers within 100
- Represents one-step additive-comparison word problems with expressions or equations, whole numbers within 20
- Represents one-step equal-groups multiplication and division word problems with models, whole numbers
- Represents one-step equal-groups multiplication word problems with expressions or equations, whole numbers
- Represents one-step multiplicative-comparison word problems with expressions or equations, whole numbers
- Represents one-step put-together word problems with expressions or equations, answer unknown and whole numbers within 20
- Represents one-step put-together word problems with expressions or equations, start, change, or part unknown and whole numbers within 20
- Represents one-step take-apart word problems with expressions or equations, answer unknown and whole numbers within 20
- Represents one-step take-apart word problems with expressions or equations, start, change, or part unknown and whole numbers within 20
- Solves multi-step addition and subtraction word problems, whole numbers greater than 100
- Solves multi-step addition and subtraction word problems, whole numbers within 100
- Solves one-step additive-comparison word problems, whole numbers within 100
- Solves one-step additive-comparison word problems, whole numbers within 20
- Solves one-step equal-groups division word problems, whole numbers within 100
- Solves one-step equal-groups multiplication word problems, whole numbers with products within 100
- Solves one-step multiplication word problems with multi-digit whole numbers
- Solves one-step put-together word problems with result unknown, whole numbers greater than 100
- Solves one-step put-together word problems with result unknown, whole numbers within 100
- Solves one-step put-together word problems with start, change, or part unknown, whole numbers within 100
- Solves one-step put-together word problems with start, change, or part unknown, whole numbers within 20
- Solves one-step take-apart word problems with result unknown, whole numbers greater than 100
- Solves one-step take-apart word problems with result unknown, whole numbers within 100
- Solves one-step take-apart word problems with result unknown, whole numbers within 20
- Solves one-step take-apart word problems with start, change, or part unknown, whole numbers within 100

- Solves one-step take-apart word problems with start, change, or part unknown, whole numbers within 20
- Solves put-together word problems involving three addends, whole numbers within 20

Students:

RIT 191-200:

- Determines the missing information needed to solve a problem
- Determines the operation(s) needed to solve word problems involving whole numbers
- Estimates solutions to one-step word problems involving any of the four operations with whole numbers
- Identifies extraneous information in an addition or a subtraction word problem
- Represents multi-step addition and subtraction word problems with expressions or equations, whole numbers
- Represents one-step addition and subtraction word problems with expressions or equations, whole numbers within 100
- Represents one-step additive-comparison word problems with expressions or equations, whole numbers within 20
- Represents one-step equal-groups division word problems with expressions or equations, whole numbers
- Represents one-step equal-groups multiplication and division word problems with models, whole numbers
- Represents one-step equal-groups multiplication word problems with expressions or equations, whole numbers
- Represents one-step multiplicative-comparison word problems with expressions or equations, whole numbers
- Represents one-step put-together word problems with expressions or equations, start, change, or part unknown and whole numbers within 20
- Represents one-step take-apart word problems with expressions or equations, answer unknown and whole numbers within 20
- Represents one-step take-apart word problems with expressions or equations, start, change, or part unknown and whole numbers within 20
- Solves multi-step addition and subtraction word problems, whole numbers greater than 100
- Solves multi-step addition and subtraction word problems, whole numbers within 100
- Solves multi-step word problems involving the four operations with whole numbers
- Solves one-step additive-comparison word problems, whole numbers greater than 100
- Solves one-step additive-comparison word problems, whole numbers within 100
- Solves one-step additive-comparison word problems, whole numbers within 20
- Solves one-step division word problems that require interpretation of remainders, whole numbers
- Solves one-step division word problems with multi-digit whole numbers
- Solves one-step equal-groups division word problems, whole numbers within 100
- Solves one-step equal-groups multiplication word problems, whole numbers with products within 100
- Solves one-step multiplication word problems with multi-digit whole numbers
- Solves one-step multiplicative-comparison word problems, whole-number products greater than 100
- Solves one-step multiplicative-comparison word problems, whole-number products within 100
- Solves one-step put-together word problems with result unknown, whole numbers greater than 100
- Solves one-step put-together word problems with result unknown, whole numbers within 100

- Solves one-step put-together word problems with start, change, or part unknown, whole numbers within 20
- Solves one-step take-apart word problems with result unknown, whole numbers greater than 100
- Solves one-step take-apart word problems with start, change, or part unknown, whole numbers greater than 100
- Solves one-step take-apart word problems with start, change, or part unknown, whole numbers within 100
- Solves one-step take-apart word problems with start, change, or part unknown, whole numbers within 20

Students:

RIT 201-210:

- Determines the missing information needed to solve a problem
- Determines the operation(s) needed to solve word problems involving whole numbers
- Estimates solutions to one-step word problems involving any of the four operations with whole numbers
- Identifies extraneous information in an addition or a subtraction word problem
- Represents multi-step word problems involving the four operations with expressions or equations, whole numbers
- Represents one-step additive-comparison word problems with expressions or equations, whole numbers within 20
- Represents one-step equal-groups division word problems with expressions or equations, whole numbers
- Represents one-step equal-groups multiplication word problems with expressions or equations, whole numbers
- Represents one-step multiplicative-comparison word problems with expressions or equations, whole numbers
- Solves multi-step addition and subtraction word problems, whole numbers greater than 100
- Solves multi-step addition and subtraction word problems, whole numbers within 100
- Solves multi-step multiplication and division word problems with whole numbers
- Solves multi-step word problems involving the four operations with whole numbers
- Solves one-step additive-comparison word problems, whole numbers greater than 100
- Solves one-step additive-comparison word problems, whole numbers within 100
- Solves one-step division word problems that require interpretation of remainders, whole numbers
- Solves one-step division word problems with multi-digit whole numbers
- Solves one-step division word problems, whole numbers with up to four-digit dividends and one-digit divisors, no remainders
- Solves one-step equal-groups division word problems, whole numbers within 100
- Solves one-step multiplication word problems with multi-digit whole numbers
- Solves one-step multiplicative-comparison word problems, whole-number products within 100
- Solves one-step put-together word problems with result unknown, whole numbers greater than 100
- Solves one-step put-together word problems with start, change, or part unknown, whole numbers greater than 100
- Solves one-step take-apart word problems with result unknown, whole numbers greater than 100
- Solves one-step take-apart word problems with start, change, or part unknown, whole numbers within 100

Students:**RIT 211-220:**

- Estimates solutions to one-step word problems involving any of the four operations with whole numbers
- Identifies extraneous information in an addition or a subtraction word problem
- Represents multi-step word problems involving the four operations with expressions or equations, whole numbers
- Represents one-step equal-groups division word problems with expressions or equations, whole numbers
- Represents one-step equal-groups multiplication word problems with expressions or equations, whole numbers
- Solves multi-step addition and subtraction word problems, whole numbers greater than 100
- Solves multi-step addition and subtraction word problems, whole numbers within 100
- Solves multi-step multiplication and division word problems with whole numbers
- Solves multi-step word problems involving the four operations with whole numbers
- Solves one-step division word problems that require interpretation of remainders, whole numbers
- Solves one-step division word problems with multi-digit whole numbers
- Solves one-step division word problems, whole numbers with up to four-digit dividends and one-digit divisors, no remainders
- Solves one-step multiplicative-comparison word problems, whole-number products within 100

Students:**RIT 221-230:**

- Estimates solutions to multi-step word problems involving the four operations with whole numbers
- Represents and solves word problems involving division of whole numbers where the quotient is a fraction
- Represents multi-step word problems involving the four operations with expressions or equations, whole numbers
- Solves multi-step multiplication and division word problems with whole numbers
- Solves multi-step word problems involving the four operations with whole numbers
- Solves one-step division word problems that require interpretation of remainders, whole numbers

Students:**RIT 231-240:**

- Represents and solves word problems involving division of whole numbers where the quotient is a fraction
- Solves multi-step multiplication and division word problems with whole numbers
- Solves multi-step word problems involving the four operations with whole numbers

Students:**RIT 241-250:**

- Represents and solves word problems involving division of whole numbers where the quotient is a fraction