

Math ISAT: Estimation and Accurate Computations

Skills: Whole Numbers – Addition and Subtraction

Students:	RIT Above 270: <ul style="list-style-type: none">• <i>No Skills Listed</i>
Students:	RIT 261-270: <ul style="list-style-type: none">• <i>No Skills Listed</i>
Students:	RIT 251-260: <ul style="list-style-type: none">• <i>No Skills Listed</i>
Students:	RIT 241-250: <ul style="list-style-type: none">• <i>No Skills Listed</i>
Students:	RIT 231-240: <ul style="list-style-type: none">• Models algorithms using place value concepts (addition and subtraction with whole numbers)
Students:	RIT 221-230: <ul style="list-style-type: none">• Predicts the relative size of the answer when adding whole numbers• Predicts the relative size of the answer when subtracting whole numbers• Models algorithms using place value concepts (addition and subtraction with whole numbers)
Students:	RIT 211-220: <ul style="list-style-type: none">• Subtracts numbers with 5-digits or more, with regrouping• Uses strategies to determine 2 or more missing digits (addition/subtraction only)• Uses reasoning strategies to solve magic squares and related puzzles (addition/subtraction only)• Predicts the relative size of the answer when adding whole numbers• Predicts the relative size of the answer when subtracting whole numbers
Students:	RIT 201-210: <ul style="list-style-type: none">• Instantly recalls basic addition facts with sums to 18 in a table• Adds multiple-digit numbers, with sums under 1000• Adds multiple-digit numbers, with regrouping, with sums over 1000• Subtracts 3- or 4-digit numbers, with regrouping• Subtracts numbers with 5-digits or more, with regrouping• Uses strategies to determine 2 or more missing digits (addition/subtraction only)• Uses number sense strategies to solve problems (addition/subtraction only)• Uses reasoning strategies to solve magic squares and related puzzles (addition/subtraction only)• Performs mental computation with more than 4 addends• Performs mental subtraction with numbers 1000 and over• Solves real-world whole number addition problems with sums to 100 (start unknown)• Solves real-world whole number problems involving subtraction with numbers 100 and under (analysis)• Solves whole number subtraction word problems with numbers over 1000• Adds and subtracts whole numbers using place value
Students:	RIT 191-200: <ul style="list-style-type: none">• Adds 2-digit to 3-digit number, with regrouping• Adds multiple-digit numbers, with sums under 1000• Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000• Adds multiple-digit numbers, with regrouping, with sums over 1000• Subtracts 1-digit number from a 2-digit number, with regrouping• Subtracts a 2-digit number from a 2-digit number, with regrouping• Subtracts a 2-digit number from a 3-digit number with a single regrouping• Subtracts multiple-digit numbers, with no regrouping• Subtracts 3- or 4-digit numbers, with regrouping• Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on)• Solves problems using the inverse relationship between addition and subtraction• Uses number sense strategies to judge the reasonableness of given answers (addition/subtraction only)• Performs mental subtraction with numbers under 1000• Performs mental subtraction with numbers 1000 and over• Solves real-world whole number addition problems with sums to 20 (result unknown) - analysis• Solves real-world whole number addition problems with sums to 100 (start unknown)• Solves real-world whole number problems involving subtraction with numbers 100 and under• Solves real-world whole number problems involving subtraction with numbers under 1000• Solves whole number addition word problems with sums over 1000• Solves whole number subtraction word problems with numbers over 1000• Adds and subtracts whole numbers using place value

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Skills: Whole Numbers – Addition and Subtraction

Students:

RIT 181-190:

- Adds 1-digit to multiple-digit number, with regrouping
- Adds two or three 2-digit numbers, with regrouping
- Adds 2-digit to 3-digit number, with regrouping
- Adds 3-digit numbers, with regrouping, with sums under 1000
- Adds two 3- and/or 4-digit numbers, with regrouping, with sums over 1000
- Adds multiple-digit numbers, with regrouping, with sums over 1000
- Subtracts 1-digit number from a 2-digit number, with regrouping
- Subtracts a 1-digit number from a multiple-digit number
- Subtracts 2- and/or 3-digit numbers with no regrouping
- Subtracts a 2-digit number from a 2-digit number, with regrouping
- Instantly recalls basic subtraction facts with minuend less than 10
- Subtracts multiple-digit numbers, with no regrouping
- Subtracts 3- or 4-digit numbers, with regrouping
- Uses strategies for sums and differences with 2-digit numbers (e.g., decomposing, compatible, compensation, partial sums, counting on)
- Performs mental computation with 2, 3, or 4 addends
- Performs mental subtraction with numbers under 1000
- Solves real-world whole number addition problems with sums to 20 (result unknown) - analysis
- Solves real-world whole number addition problems with sums to 20 (start unknown)
- Solves real-world whole number addition problems with sums to 100 (result unknown)
- Solves real-world whole number addition problems with sums to 1000
- Solves real-world whole number problems involving subtraction with numbers under 20
- Solves real-world whole number problems involving subtraction with numbers 100 and under
- Solves real-world whole number problems involving subtraction with numbers under 1000
- Solves real-world whole number problems involving addition and subtraction

Students:

RIT 171-180:

- Adds 1-digit numbers with sums to 18 (with parentheses)
- Adds 2-digit to 3-digit number, with no regrouping, with sums under 1000
- Adds 3-digit numbers, with no regrouping
- Adds two or three 2-digit numbers, with regrouping
- Adds 3-digit numbers, with regrouping, with sums under 1000
- Adds 1-, 2-, and/or 3-digit numbers, with sums under 100
- Adds multiple-digit numbers, with no regrouping, with sums over 1000
- Subtracts two whole numbers, with the minuend between 9 and 19, horizontally
- Subtracts a 1-digit number from a 2-digit number, with no regrouping, vertically
- Subtracts a 1-digit number from a multiple-digit number
- Subtracts a 2-digit number from a 2-digit number, with no regrouping
- Subtracts 2- and/or 3-digit numbers with no regrouping
- Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens)
- Uses strategies for subtraction facts (e.g., counting back, one less, two less)
- Solves real-world whole number addition problems with sums to 20 (result unknown)
- Solves real-world whole number addition problems with sums to 20 (start unknown)
- Solves real-world whole number addition problems with sums to 20 (change unknown)
- Solves real-world whole number addition problems with sums to 100 (result unknown)
- Solves real-world whole number addition problems with sums to 1000
- Solves real-world whole number problems involving subtraction with numbers under 20

Students:

RIT 161-170:

- Adds two 1-digit numbers with sums to 10 in horizontal format
- Adds two 1-digit numbers with sums between 10 and 19 in horizontal format
- Adds two 1-digit numbers with sums to 10 in vertical format
- Adds two 1-digit numbers with sums between 10 and 19 in vertical format
- Adds multiple 1-digit numbers
- Adds 1-digit to multiple-digit number with no regrouping
- Adds 2-digit numbers with no regrouping
- Adds 2-digit to 3-digit number, with no regrouping, with sums under 1000
- Subtracts two 1-digit numbers horizontally
- Subtracts two whole numbers, with the minuend between 9 and 19, horizontally
- Subtracts two 1-digit numbers vertically
- Subtracts a 2-digit number from a 2-digit number, with no regrouping
- Uses strategies for addition facts (e.g., compatible numbers, counting on, doubles, neighbors, making tens)
- Uses strategies for subtraction facts (e.g., counting back, one less, two less)
- Solves real-world whole number addition problems with sums to 20 (result unknown)

Students:

RIT Below 161:

- Adds two 1-digit numbers with sums to 10 in horizontal format