

# Mathematics

## ISAT Goal: Estimation and Computation / Subskill: Whole Numbers

### RIT 231-240:

- Divide a 2-digit number or a 3-digit number by a 1-digit number with remainder; Divide multi-digit numbers using a calculator

### RIT 221-230:

- Develop computational fluency with division facts; Divide multi-digit numbers using a calculator; Introduce the math strategy of compatible numbers in estimating for all four operations

### RIT 211-220:

- Divide a 3-digit or 4-digit number by a 1-digit number; Use multiplication as a check for division; Multiply by multiples of 10 and 100 with an emphasis on mental math; Divide a 4-digit number by a 2-digit number

### RIT 201-210:

- Understand the concept of division using pictorial representation; Use front-end estimation strategy for multiplication and division; Divide a 2-digit number by a 2-digit number with a remainder; Subtract multi-digit numbers without using a calculator; Multiply by multiples of 10 and 100 with an emphasis on mental math; Divide a 3-digit number by a multiple of 10; Divide a 3-digit number by a 2-digit number (no zeros)

Student List:

### RIT 191-200:

- Solve one-step word problems involving multiplication; Subtract multi-digit numbers with regrouping; Multiply a 2-digit number by a 2-digit number with no regrouping; Multiply a 2-digit number by a 2-digit number with regrouping; Subtract multi-digit numbers without using a calculator; Multiply a 3-digit number by a 2-digit number with regrouping; Multiply a 3-digit number or 4-digit number by a 2-digit number or 3-digit number with zeros; Add whole numbers using place value

Student List:

### RIT 181-190:

- Subtract a 2-digit number from a 3-digit number with a single regrouping; Identify the division facts related to a multiplication fact with one factor as 1,2,3,4,5 and the other factor 0-9; Understand the concept of division using concrete objects; Subtract a 3- or 4-digit number from a 4-digit number with regrouping; Use strategies to develop computational fluency with multiplication: "zero property," "property of one," "arrays," "doubles," "nine patterns"; Multiply a 3-digit by a 1-digit number with regrouping (including zero); Multiply three 2-digit numbers (one is 10); Identify the division facts related to a multiplication fact; Divide a 2-digit number by a 1-digit number with no remainder (basic facts to 9); Solve one-step word problems involving division; Add 2 or several multi-digit numbers with regrouping; Subtract multi-digit numbers with regrouping; Divide a 3-digit or 4-digit number by a 1-digit number; Divide a 2-digit number by a 2-digit number with no remainder; Add multi-digit numbers without using a calculator; Multiply multi-digit numbers

Student List:

### RIT 171-180:

- Add 1- and 2-digit numbers with regrouping; Add two 2-digit and 3-digit numbers with regrouping; Subtract two 2-digit numbers with regrouping; Understand the concept of multiplication using concrete objects; Add 2-, 3- and 4-digit numbers with regrouping; Multiply a 2- or 3-digit number by a 1-digit number with no regrouping; Multiply a 2-digit number by a 1-digit number with regrouping; Divide a 2-digit number by a 1-digit number with remainder; Multiply a 3-digit number by a 2-digit number

### RIT 161-170:

- Separate sets through manipulative and pictorial subtraction problems; Add a 2-digit number and a 2-digit number with no regrouping; Subtract a 1-digit number from a 2-digit number with no regrouping; Subtract a 2-digit number from a 2-digit number with no regrouping; Subtract 2- and 3-digit numbers with no regrouping

### RIT 151-160:

- Combine sets through manipulative and pictorial addition problems; Add three 1-digit numbers; Add 2- and 3-digit numbers with no regrouping; Subtract a 1-digit number from a 2-digit number with regrouping; Understand the concept of multiplication using symbols; recall multiplication facts with one factor as 1,2,3,4,5 and other factor 0-9

### RIT 150-Below:

- Identify fact families with sums 0-18 in horizontal format; Understand the concept of subtraction using symbols; subtract two numbers in vertical format