

# Mathematics RIT Score: 171-180

## Number Sense and Operations

### *Whole Numbers*

- Solve simple subtraction word problems
- 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
- Identify the associative, commutative, identity and zero property of multiplication
- Divide a 2-digit number or a 3-digit number by a 1-digit number with remainder
- Round 2- and 3-digit numbers to the nearest hundred and tens
- Multiply a 3-digit number by a 2-digit number

### *Fractions*

- Add fractions with like denominators

### *Decimals*

- Add whole numbers and decimals to the hundredths place (same number of digits)

*New Vocabulary in this range:*  
closest, how many

*New Signs and Symbols:*  
division symbol (both forms)

### *Whole Numbers*

- Compare two or more sets of objects (up to ten objects in each group) and identify which set is equal to, more than, or less than the other
- Count and write by 10's to 100
- Compare, group, and order whole numbers to 100 by using the symbols for "less than", "equal to", and "greater than" ( $<$ ,  $=$ ,  $>$ )
- Distinguish between odd and even numbers
- Count by 2's to 20

### *Fractions*

- Identify one-half of an object or set
- Identify fractional parts of a region or group

### *Place Value, Expanded and Standard Notation*

- Write numerals in expanded form through the thousands place

### *Ordering, Equalities and Inequalities*

- Use  $>$  or  $<$  symbols to compare two numbers

*New Vocabulary in this Range:*  
even numbers, same as, fewest

*New Signs and Symbols:*  
< and > signs, = sign

## **Patterns, Functions, and Algebra**

*Solving Equations and Inequalities, Simplifying Expressions, Order of Operations*

- Solve for missing factors in a multiplication or division sentence
- Evaluate a numerical equation involving more than one operation

*Properties*

- Demonstrate the associative, commutative, and zero property of addition

*New Vocabulary in this Range:*  
none

*New Signs and Symbols:*  
<, > symbols

## **Measurement**

*Length, Weight, Volume*

- Determine more capacity or less capacity
- Measure length with customary measures (inch)
- Measure weight with customary measure (pounds)
- Measure capacity to the nearest cup, pint, quart, and gallon and do appropriate conversions between these units
- Estimate and measure the length of an object to the nearest metric and customary measure using a picture of a ruler

*Area, Perimeter, Circumference*

- Find the perimeter of a figure using units
- Estimate and verify the area of a figure using square units (counting)

*Time, Temperature*

- Tell time to the quarter hour using analog and digital clocks
- Tell time to the nearest 5 minutes using analog and digital clocks
- Compute simple conversions among units of time: seconds, minutes, hours, days, weeks, months, years

*Money*

- Identify value of a one dollar bill
- Determine if a collection of coins is enough to purchase an object up to and including \$1.00

*New Vocabulary in this Range:*

line segment, area, square units, perimeter, days, week, set, coins, thermometer, temperature, pounds, ounces, pints, quarts

*New Signs and Symbols:*

\$, decimal point for cents, F = Fahrenheit, lb = pounds, sq = square units, cent sign, recognize back of penny, nickel, dime, and quarter

## Geometry and Spatial Sense

### *Shapes and Figures, 2- and 3-dimensional*

- Classify and sort solid figures

### *Congruency and Similarity*

- Identify congruent figures using terminology

### *Symmetry and Transformations*

- Recognize transformations of plane figures (slides, flips, and turns) by identifying the figure that will fit in a certain space

### *New Vocabulary in this Range:*

congruent, figure

### *New Signs and Symbols:*

none

## Data Analysis, Statistics, and Probability

### *Probability and Prediction*

- Interpret a table and make predictions (chance)
- Predict the likely number of times a condition will occur based on an analysis of data

### *Graphing*

- Complete and interpret simple picture graphs, bar graphs, line graphs or tables using the key to indicate the quantity represented by each symbol
- Graph ordered pairs in the first quadrant
- Identify least and greatest values represented in bar graphs and pictographs

### *New Vocabulary in this Range:*

chance

### *New Signs and Symbols:*

none

## Problem Solving

- Solve simple subtraction word problems
- Use a problem solving process (as defined by text)
- Recognize and extend a pattern: shape, color and size
- Identify position concepts: over, under, inside, outside, in front, behind, top, middle, bottom
- Combine and identify the value of a collection of coins and bills up to and including \$1.00
- Compare objects by shape, size, height, or length (larger, smaller, taller, shorter, longer)
- Complete and interpret simple picture graphs, bar graphs or tables

### *New Vocabulary in this Range:*

product, number sentence, problem, how many more, multiples, greater than, left, how much, money, answer, about, outside, inside, shape, calendar, picture

### *New Signs and Symbols:*

none