



# Intermediate Math Learning Targets

*Here is an overview of what your student will be learning this year in Intermediate Math.*

## Basic Operations & Applications

- Solve routine one-step arithmetic problems using whole numbers.
- Solve routine one-step arithmetic problems using fractions.
- Solve routine one-step arithmetic problems involving decimals.
- Solve routine two-step arithmetic problems involving whole numbers.
- Solve routine problems involving ratios.
- Solve routine problems involving proportion.
- Solve routine two-step or three-step arithmetic problems involving percents.

## Probability, Statistics & Data Analysis

- Calculate the average of a list of numbers.
- Calculate average from a table or graph.
- Calculate the average, given the number of data values and the sum of data values.
- Find the median of a list of numbers.
- Find the median of data in a table or graph.
- Read tables and graphs.
- Perform computations on data from tables and graphs.
- Determine the probability of a simple event.
- Use the relationship between the probability of an event and the probability of its complement.

## Number: Concepts & Properties

- Exhibit knowledge of math facts.
- Exhibit knowledge of partial product.
- Apply operations of fractions.
- Recognize equivalent fractions.
- Recognize factors of a number.
- Recognize multiples of a number.
- Identify a digit's place value.
- Exhibit knowledge of rounding and ordering decimals.
- Exhibit knowledge of absolute value.
- Exhibit knowledge of greatest common factor.
- Use patterns to make predictions.

## Expressions, Equations & Inequalities

- Exhibit knowledge of the order of operations.
- Substitute whole numbers for unknown quantities to evaluate expressions.
- Solve one-step equations having integer or decimal answers.
- Evaluate algebraic expressions by substituting integers for unknown quantities.
- Add and subtract simple algebraic expressions.
- Solve routine first-degree equations.

## Graphical Representations

- Locate points on the number line and in the first quadrant.
- Locate points in the coordinate plane.
- Comprehend the concept of length of the number line.
- Exhibit knowledge of slope.
- Exhibit knowledge of parallel and perpendicular slopes.

## Properties of Plane Figures

- Find the measure of an angle using properties of parallel lines.
- Solve problems involving angles in triangles.
- Solve problems involving special sums of angles.
- Solve problems by using multiple angle measures.

## Measurement

- Compute the perimeter of polygons when all the side lengths are given.
- Solve problems involving the area and perimeter of rectangles.
- Solve problems involving the area and perimeter of rectangles.
- Solve problems that relate area and perimeter.