

Essential Targets

Trumansburg
Grade 8

Math

The Number System

- I can find the decimal expansion of a number.
- I can find irrational numbers on a number line.

Expressions, Equations, and Inequalities

- I can apply the rules of integer exponents to make equivalent expressions.
- I can work with perfect squares and find square roots.
- I can switch between standard notation and scientific notation.
- I can work add/subtract/multiply and divide numbers in scientific notation.
- I can graph proportional relationships.
- I can find the solution on a graph where two lines cross.
- I can solve systems of equations in two variables.
- I can solve systems of equations from a graph and by using Algebra.
- I can solve real-world math problems using systems of equations.

Functions

- I can identify that to be a function each input must have only one output.
- I can compare functions using algebra, graphs and tables.
- I can recognize linear and nonlinear functions on a graph or in an algebraic form.
- I can describe a function when I look at it on a graph.

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Geometry

- I can identify that figures are congruent (equal) if the corresponding angles are the same.
- I can describe and work with figures when they are translated, rotated, reflected and dilated (change size).
- I can identify that a figure is similar to another figure if the angles are congruent and the sides are proportional.
- I can identify angle measures and names when two parallel lines are cut by a transversal.
- I can apply the Pythagorean Theorem to a right triangle.
- I can use the Pythagorean Theorem to find the distance between two points on a graph.
- I can use and apply the formulas to find the volume of cones, cylinders and spheres.

Statistics and Probability

- I can interpret a set of data on a scatter plot.
- I can draw a best-fit line of data for a scatter plot when given data.
- I can interpret and use the slope and y-intercept from a set of data.