

## Math 8 “I Can” Statements Common Core Aligned

### Unit 1: Equations

- I can solve simple equations.
- I can write an equation to solve a problem.
- I can solve a two-step equation.
- I can combine like terms to solve an equation.
- I can use the Distributive Property to solve an equation.
- I can solve an equation with variables on both sides.
- I can solve equations with “no solution” or “infinitely many solutions.”
- I can re-write equations and formulas.

### Unit 2: Transformations

- I can name corresponding angles and corresponding sides.
- I can identify and use congruent figures.
- I can identify a translation.
- I can translate a figure in the coordinate plane.
- I can identify a reflection.
- I can reflect a figure in the coordinate plane.
- I can identify a rotation.
- I can rotate a figure in the coordinate plane.
- I can complete and describe a sequence of transformations.
- I can identify similar figures.
- I can find an unknown measure in similar figures.
- I can find ratios of perimeters and areas.
- I can identify a dilation.
- I can dilate a figure in the coordinate plane.

### Unit 3: Angles and Triangles

- I can find angle measurements when two parallel lines are cut by a transversal.
- I can identify various angle types: corresponding, vertical, supplementary, alternate interior, and alternate exterior.
- I can find interior angle measures of a triangle.
- I can find exterior angle measures of a triangle.
- I can find the sum of the interior angle measures of a polygon.
- I can find an interior angle measure of a polygon.
- I can find an exterior angle measure of a polygon.
- I can identify similar triangles.
- I can use indirect measurement to find missing measures in similar figures.

#### Unit 4: Graphing and Writing Linear Equations

- I can use a table of values to graph a linear equation.
- I can graph horizontal and vertical lines.
- I can find the slope of a line using a graph.
- I can find the slope of a line using a table.
- I can find the slope of horizontal and vertical lines.
- I can use slope to identify parallel and perpendicular lines.
- I can graph a proportional relationship.
- I can write and use direct variation.
- I can compare proportional relationships.
- I can identify the slope and y-intercept of a linear equation.
- I can graph a linear equation in slope-intercept form.
- I can graph a linear equation in standard form.
- I can write equations in slope-intercept form.
- I can write equations in point-slope form.

#### Unit 5 Systems of Linear Equations

- I can solve a system of linear equations by graphing.
- I can solve a system of linear equations by substitution.
- I can solve a system of linear equations by elimination.
- I can solve special systems with “no solution” or “infinitely many solutions.”

#### Unit 6: Functions

- I can list ordered pairs of a relation.
- I can determine whether relations are functions.
- I can describe a mapping diagram.
- I can write a function rule.
- I can evaluate a function.
- I can graph a function.
- I can write a linear function using a graph.
- I can write a linear function using a table.
- I can compare linear functions.
- I can use a table to identify whether a function is linear or nonlinear.
- I can use a graph to identify whether a function is linear or nonlinear.
- I can analyze a graph that shows the relationship between quantities.
- I can sketch a graph that shows the relationship between quantities.

### Unit 7: Real Numbers and the Pythagorean Theorem

- I can find square roots.
- I can evaluate expressions involving square roots.
- I can find cube roots.
- I can evaluate expressions involving cube roots.
- I can use Pythagorean Theorem to find the length of a hypotenuse.
- I can use Pythagorean Theorem to find the length of a leg.
- I can classify real numbers.
- I can approximate a square root.
- I can compare real numbers.
- I can write a repeating decimal as a fraction.
- I can use Pythagorean Theorem to identify a right triangle.
- I can find the distance between two points.

### Unit 8: Volume and Similar Solids

- I can find the volume of a cylinder.
- I can find the height of a cylinder.
- I can find the volume of a cone.
- I can find the height of a cone.
- I can find the volume of a sphere.
- I can find the radius of a sphere.
- I can find the volume of a composite solid.
- I can identify similar solids.
- I can find missing measures in similar solids.
- I can find surface area using similar solids.
- I can find volume using similar solids.

### Unit 9: Data Analysis and Displays

- I can interpret a scatter plot.
- I can identify relationships in a set of data.
- I can find a line of fit.
- I can find a line of best fit using technology.
- I can read a two-way table.
- I can find marginal frequencies.
- I can make a two-way table.
- I can find a relationship in a two-way table.
- I can choose an appropriate data display.
- I can identify an appropriate data display.
- I can identify a misleading data display.
- I can analyze a misleading data display.

## Unit 10: Exponents and Scientific Notation

- I can write expressions using exponents.
- I can evaluate expressions with exponents.
- I can use order of operations.
- I can multiply powers with the same base.
- I can find the power of a power.
- I can find the power of a product.
- I can divide powers with the same base.
- I can simplify an expression.
- I can evaluate expressions with zero and negative exponents.
- I can identify numbers written in scientific notation.
- I can write numbers in standard form.
- I can compare numbers in scientific notation.
- I can write large and small numbers in scientific notation.
- I can add and subtract numbers in scientific notation.
- I can multiply and divide numbers in scientific notation.