



Resource Pre-Algebra Semester 1 Final Assessment Blueprint

Year Created: 2024-2025

Method of Delivery: Online

Subject: Math

Administration Window: December Common Finals

Resources

[Resource Pre-Algebra Curriculum Map](#)

Standards At-A Glance

Standard	Number of Items	Standard Description
MA.8.EE.A.2.a	1	Evaluate square roots of perfect squares less than or equal to 225.
MA.8.EE.B.5	3	Graph proportional relationships interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways.
MA.8.EE.B.6	1	Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane. Derive the equation $y = m x$ for a line through the origin and the equation $y = m x + b$ for a line intercepting the vertical axis at $(0, b)$.
MA.8.EE.C.7	2	Fluently solve linear equations and inequalities in one variable.
MA.8.EE.C.7.a	6	Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solution. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results (where a and b are different numbers).
MA.8.NS.A.1	1	Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion. Know that numbers whose decimal expansions do not terminate in zeros or in a repeating sequence of fixed digits are called irrational.
MA.8.SP.A.4	1	Understand that patterns of association can also be seen in bivariate categorical data by displaying frequencies and relative frequencies in a two-way table. Construct and interpret a two-way table summarizing data on two categorical variables collected from the same subjects. Use relative frequencies calculated for rows or columns to describe possible association between the two variables.

*Some items may be tagged to more than one standard.

Depth of Knowledge

DOK	Number of Items
Level 1: Recall	5
Level 2: Skill/Concept	10
Level 3: Strategic Thinking	0

Item Types Included

Type	Number of Items	Description
MC	15	Multiple Choice - Select one answer