

Algebra I Grid Games Table of Content

Rules for playing Grid Games

Suggestions

I. SIMPLIFYING EXPRESSIONS

Absolute Value

Given an absolute value expression, simplify

Integer +-

Solve each integer expression involving addition and subtraction

Integer */

Solve each integer expression involving multiplication and division

Substitution

Solve each expression involving substitution

II. EQUATIONS

One-step Equations

Solve each one step equation

Two-step Equations

Solve each two step equation

Multi-step Equations

Solve each multi-step equation

Literal Equations

Solve each equation involving numerous variables for one variable X

III. INEQUALITIES

Inequalities

Identify each inequality graphed on a number line

Inequalities 2

Solve each inequality

IV. LINEAR FUNCTIONS

Functions

Evaluate each function using an equation, table or graph

Slope

Given a graph, find slope

Slope 2A

Given a line in slope-intercept form, find slope

Slope 2B

Given a line in standard form, find slope

Finding m & b

Given a line in slope-intercept form, find slope and y-intercept

Slope 3

Given a set of points, find slope

Finding Lines 1

Given slope and y-intercept, find the equation of the line in slope-intercept form

Finding Lines 2

Given the graph of a line, find the equation of the line in slope-intercept form

Finding Lines 3

Given slope and one point, find the equation of the line in slope-intercept form

Finding Lines 4

Given two points or a table of values, find the equation of the line in slope-intercept form

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Intercepts

find the x-intercept and y-intercept for each equation in standard form

Standard form

Rewrite each linear equation in standard form

V. POLYNOMIALS

Polynomial +-

Simplify polynomial expressions involving addition and subtraction

Multiplying Binomials

Find the product of each pair of binomials given.

Factoring Polynomials

Factor each polynomial using difference of squares or trinomial factoring

VI. QUADRATIC FORMULA AND FUNCTIONS

Quadratic Formula

Given a quadratic equation, use the Quadratic Formula to set up each.

Quadratic Functions

Identify each quadratic function graphed

Quadratic Functions2

Identify the vertex of each quadratic function

VII. SQUARE ROOTS

Square Roots

Simplify each square root expression

VIII. TRANSFORMATIONS

Linear Parent graphs

Describe how each graph listed differs from the parent graph $y = x$

Absolute Value Parent graphs

Describe how the graph stated differs from the parent graph $y = |x|$

Absolute Value Parent graphs 2

Identify each absolute value function graphed

IX. TRANSLATIONS

Words to Expressions

Translate each phrase to an expression or equation