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2026

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Reza Nazari

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The Most Comprehensive Review of Algebra I

By

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Anchor Descriptor	Eligible Content	Enhanced Standard
A1.1.1.5 Simplify expressions involving polynomials.	A1.1.1.5.1 Add, subtract, and/or multiply polynomial expressions (express answers in simplest form). Note: Nothing larger than a binomial multiplied by a trinomial.	2.8.A1.B
	A1.1.1.5.2 Factor algebraic expressions, including difference of squares and trinomials. Note: Trinomials are limited to the form $ax^2 + bx + c$ where a is equal to 1 after factoring out all monomial factors.	2.1.A1.B
	A1.1.1.5.3 Simplify/reduce a rational algebraic expression.	2.8.A1.B

ASSESSMENT ANCHOR **A1.1.2 Linear Equations**		
Anchor Descriptor	**Eligible Content**	**Enhanced Standard**
A1.1.2.1 Write, solve, and/or graph linear equations using various methods.	A1.1.2.1.1 Write, solve, and/or apply a linear equation (including problem situations).	2.1.A1.F 2.8.A1.E 2.8.A1.F
	A1.1.2.1.2 Use and/or identify an algebraic property to justify any step in an equation-solving process. Note: Linear equations only.	2.1.A1.F
	A1.1.2.1.3 Interpret solutions to problems in the context of the problem situation. Note: Linear equations only.	2.8.A1.F

Anchor Descriptor	Eligible Content	Enhanced Standard
A1.1.2.2 Write, solve, and/or graph systems of linear equations using various methods.	A1.1.2.2.1 Write and/or solve a system of linear equations (including problem situations) using graphing, substitution, and/or elimination. Note: Limit systems to two linear equations.	2.8.A1.E 2.8.A1.F
	A1.1.2.2.2 Interpret solutions to problems in the context of the problem situation. Note: Limit systems to two linear equations.	2.8.A1.F

ASSESSMENT ANCHOR

A1.1.3 Linear Inequalities

Anchor Descriptor	Eligible Content	Enhanced Standard
A1.1.3.1 Write, solve, and/or graph linear inequalities using various methods.	A1.1.3.1.1 Write or solve compound inequalities and/or graph their solution sets on a number line (may include absolute value inequalities).	2.1.A1.F 2.8.A1.E 2.8.A1.F
	A1.1.3.1.2 Identify or graph the solution set to a linear inequality on a number line.	2.8.A1.B
	A1.1.3.1.3 Interpret solutions to problems in the context of the problem situation. Note: Limit to linear inequalities.	2.8.A1.F

Anchor Descriptor	Eligible Content	Enhanced Standard
A1.1.3.2 Write, solve, and/or graph systems of linear inequalities using various methods.	A1.1.3.2.1 Write and/or solve a system of linear inequalities using graphing. Note: Limit systems to two linear inequalities.	2.8.A1.E 2.8.A1.F
	A1.1.3.2.2 Interpret solutions to problems in the context of the problem situation. Note: Limit systems to two linear inequalities.	2.8.A1.F

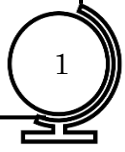
ASSESSMENT ANCHOR **A1.2.1 Functions**		
Anchor Descriptor	**Eligible Content**	**Enhanced Standard**
A1.2.1.1 Analyze and/or use patterns or relations.	A1.2.1.1.1 Analyze a set of data for the existence of a pattern and represent the pattern algebraically and/or graphically.	2.8.A1.C
	A1.2.1.1.2 Determine whether a relation is a function, given a set of points or a graph.	2.8.A1.D
	A1.2.1.1.3 Identify the domain or range of a relation (may be presented as ordered pairs, a graph, or a table).	2.8.A1.D
Anchor Descriptor	**Eligible Content**	**Enhanced Standard**
A1.2.1.2 Interpret and/or use linear functions and their equations, graphs, or tables.	A1.2.1.2.1 Create, interpret, and/or use the equation, graph, or table of a linear function.	2.8.A1.D
	A1.2.1.2.2 Translate from one representation of a linear function to another (i.e., graph, table, and equation).	2.8.A1.D

Chapter 1: Fundamentals and Building Blocks



Math Topics that you'll learn in this Chapter:

- ✓ Adding and Subtracting Integers
- ✓ Multiplying and Dividing Integers
- ✓ Translate Phrases into an Algebraic Statement
- ✓ Order of Operations
- ✓ Integers and Absolute Value
- ✓ Proportional Ratios
- ✓ Similarity and Ratios
- ✓ Percent Problems
- ✓ Percent of Increase and Decrease
- ✓ Discount, Tax, and Tip
- ✓ Simple Interest
- ✓ The Distributive Property
- ✓ Approximating Irrational Numbers



Adding and Subtracting Integers

Solve.

1) $-(9)+15=$ ____

2) $15-(-11-9)=$ ____

3) $(-10)+(-6)=$ ____

4) $(-10)+(-6)+7=$ ____

5) $-(23)+19=$ ____

6) $(-7+5)-9=$ ____

7) $28+(-32)=$ ____

8) $(-11)+(-9)+5=$ ____

9) $25-(8-7)=$ ____

10) $-(29)+17=$ ____

11) $(-38)+(-3)+29=$ ____

12) $15-(-7+9)=$ ____

13) $24-(8-2)=$ ____

14) $(-7+4)-9=$ ____

15) $(-17)+(-3)+9=$ ____

16) $(-26)+(-7)+8=$ ____

17) $(-9)+(-11)=$ ____

18) $8-(-23-13)=$ ____

19) $(-16)+(-2)=$ ____

20) $25-(7-4)=$ ____

21) $23+(-12)=$ ____

22) $(-18)+(-6)=$ ____

23) $17-(-21-7)=$ ____

24) $-(28)-(-16)+5=$ ____

25) $(-9+4)-8=$ ____

26) $(-28)+(-6)+17=$ ____

27) $-(21)-(-15)+9=$ ____

28) $(-31)+(-6)=$ ____

29) $(-18)+(-10)+13=$ ____

30) $(-30)+(-11)+12=$ ____

31) $-(28)-(-10)+6=$ ____

32) $6-(-16-11)=$ ____

Multiplying and Dividing Integers

Solve.

1) $(-6) \times (-7) =$ _____

2) $8 \times (-5) =$ _____

3) $48 \div (-8) =$ _____

4) $(-72) \div 9 =$ _____

5) $(4) \times (-6) =$ _____

6) $(-9) \times (-11) =$ _____

7) $(10) \div (-5) =$ _____

8) $144 \div (-12) =$ _____

9) $(10) \times (-2) =$ _____

10) $(-8) \times (-2) \times 5 =$ _____

11) $(8) \div (-2) =$ _____

12) $45 \div (-15) =$ _____

13) $(5) \times (-7) =$ _____

14) $(-6) \times (-5) \times 4 =$ _____

15) $(12) \div (-6) =$ _____

16) $(14) \div (-7) =$ _____

17) $196 \div (-14) =$ _____

18) $(27 - 13) \times (-2) =$ _____

19) $125 \div (-5) =$ _____

20) $66 \div (-6) =$ _____

21) $(-6) \times (-5) \times 3 =$ _____

22) $(15 - 6) \times (-3) =$ _____

23) $(32 - 24) \div (-4) =$ _____

24) $72 \div (-6) =$ _____

25) $(-14 + 8) \times (-7) =$ _____

26) $(-3) \times (-9) \times 3 =$ _____

27) $84 \div (-12) =$ _____

28) $(-12) \times (-10) =$ _____

29) $22 \times (-3) =$ _____

30) $(-2) \times (-6) \times 5 =$ _____

31) $(24) \div (-3) =$ _____

32) $(-15) \div (3) =$ _____