Indiana Algebra I

Practice Workbook

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2026

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Reza Nazari

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2026

The Most Comprehensive Review of Algebra I

By

Reza Nazari

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Geometry and Measurement (4 – 14%)	**8. GM. 1** Attributes of three-dimensional geometric objects	1 – 4	1 – 5 %	3 – 10
	8. GM. 2 Volume of cones, spheres, and pyramids and surface area of spheres	0 – 2	0 – 3 %	
	8. GM. 3 Effects of rotations, reflections, and translations	Assessed in the classroom		
	8. GM. 4 Congruent two-dimensional figures and transformations	0 – 3	0 – 4 %	
	8. GM. 5 Similar two-dimensional figures and transformations	Assessed in the classroom		
	8. GM. 6 Effects of transformations on two-dimensional figures using coordinates	0 – 2	0 – 3 %	
	8. GM. 7 Inductive reasoning and the Pythagorean	Assessed in the classroom		
	8. GM. 8 Pythagorean Theorem and side lengths	1 – 4	1 – 5 %	
	8. GM. 9 Pythagorean Theorem and distance	0 – 3	0 – 4 %	
	AI. DS. 1 Sampling methods and bias	0 – 2	0 – 3 %	
	AI. DS. 2 Relationships of bivariate data on a scatter plot	Assessed in the classroom		
	AI. DS. 3 Linear functions modeling bivariate data	0 – 4	0 – 5 %	
	AI. DS. 4 Correlation and causation	0 – 2	0 – 3 %	

Data Analysis, Statistics, and Probability (**9 – 19**%)	**AI. DS. 5** Two-way frequency tables	Assessed in the classroom		7 – 14
	AI. DS. 6 Analyzing statistics and data	1 – 4	1 – 5 %	
	8. DSP. 1 Patterns in scatterplots	1 – 5	1 – 7 %	
	8. DSP. 2 Straight lines modeling scatterplots	Assessed in the classroom		
	8. DSP. 3 Predictions from equations modeling linear relationships	2 – 5	3 – 7 %	
	8. DSP. 4 Probability of compound events	Assessed in the classroom		
	8. DSP. 5 Sample spaces and probabilities of compound events	0 – 2	0 – 3 %	
	8. DSP. 6 multiplication counting principle	0 – 2	0 – 3 %	
Linear Equations, Inequalities, and Functions (**28 – 38**%)	**AI. L. 1** Solving linear equations	0 – 4	0 – 5 %	20 – 28
	AI. L. 2 Real-word problems and linear equations and inequalities	0 – 4	0 – 5 %	
	AI. L. 3 Algebraic proportions	1 – 4	1 – 5 %	
	AI. L. 4 Representing linear functions	1 – 6	1 – 8 %	
	AI. L. 5 Real-world problems and linear functions	1 – 5	1 – 7 %	
	AI. L. 6 Translating linear function equations	0 – 3	0 – 4 %	
	AI. L. 7 Real-world problems and linear inequalities	0 – 5	0 – 7 %	

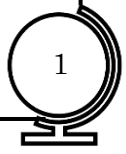
	AI. L. 8 Compound linear inequalities	0 – 2	0 – 3 %	
	AI. L. 9 Solving absolute value linear equations	Assessed in the classroom		
	AI. L. 10 Graphing absolute value linear equations	Assessed in the classroom		
	AI. L. 11 Solving for a specified variable	0 – 2	0 – 3 %	
	A1. F. 1 Function domains and ranges	Assessed in the classroom		
	A1. F. 2 Functional relationships in graphs	0 – 4	0 – 5 %	
	A1. F. 3 Domain and range	0 – 2	0 – 3 %	
	A1. F. 4 Function relationships and context	0 – 3	0 – 4 %	
	8. AF. 1 Solving linear equations	Assessed in the classroom		
	8. AF. 2 Number of solutions in linear equations	0 – 3	0 – 4 %	
	8. AF. 3 Function ordered pairs	1 – 4	1 – 5 %	
	8. AF. 4 Describing and sketching graphs	Assessed in the classroom		
	8. AF. 5 Linear and nonlinear functions	1 – 4	1 – 5 %	
	8. AF. 6 Modeling a linear relationship	0 – 4	0 – 5 %	
	8. AF. 7 Comparing linear functions	1 – 4	1 – 5 %	
	AI. SEI. 1 Solving pairs of linear equations by graphing	0 – 2	0 – 3 %	

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