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Practice Workbook

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2026

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Reza Nazari

South Carolina Algebra I Practice Workbook

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The Most Comprehensive Review of Algebra I

By

Reza Nazari

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A1. FIF. 8	Translate between different forms of function equations.
A1. FIF. 9	Compare properties of two functions in different representations.
Linear, Quadratic, and Exponential	
A1. FLQE. 1	Distinguish between linear and exponential functions.
A1. FLQE. 2	Create symbolic representations of linear and exponential functions.
A1. FLQE. 3	Compare growth of exponential and polynomial functions.
A1. FLQE. 5	Interpret parameters in linear or exponential functions.
Quantities	
A1. NQ. 1	Use units of measurement.
A1. NQ. 2	Label and define quantities in context.
A1. NQ. 3	Choose appropriate accuracy for quantities.
Real Number System	
A1. NRNS. 1	Rewrite expressions with radicals and rational exponents.
A1. NRNS. 2	Translate between rational exponent and radical forms.
A1. NRNS. 3	Explain properties of rational and irrational numbers.
Interpreting Data	
A1. SPID. 6	Create scatterplots and analyze models.
A1. SPID. 7	Create linear functions to model data.
A1. SPID. 8	Compute and interpret the correlation coefficient.

Contents

Chapter 1: Fundamentals and Building Blocks 1
Adding and Subtracting Integers 2
Multiplying and Dividing Integers 3
Translate Phrases into an Algebraic Statement 4
Order of Operations 5
Integers and Absolute Value 6
Proportional Ratios 7
Similarity and Ratios 8
Percent Problems 9
Percent of Increase and Decrease 10
Discount, Tax, and Tip 11
Simple Interest 12
The Distributive Property 13
Approximating Irrational Numbers 14
Answers – Chapter 1 15
Chapter 2: Exponents and Variables 19
Multiplication Property of Exponents 20
Division Property of Exponents 21
Powers of Products and Quotients 22
Zero and Negative Exponents 23
Negative Exponents and Negative Bases 24
Scientific Notation 25
Addition and Subtraction in Scientific Notation 26
Multiplication and Division in Scientific Notation 27
Answers – Chapter 2 28
Chapter 3: Expressions and Equations 31
Simplifying Variable Expressions 32
Evaluating One Variable 33
Evaluating Two Variables 34
One–Step Equations 35

Multi –Step Equations 36
Rearrange Multi-Variable Equations 37
Finding Midpoint 38
Finding the Distance of Two Points 39
Answers – Chapter 3 40
Chapter 4: Linear Functions 43
Finding Slope 44
Writing Linear Equations 45
Graphing Linear Inequalities 46
Write an Equation from a Graph 47
Slope-intercept Form and Point-slope Form 48
Write a Point-slope Form Equation from a Graph 49
Find x − and y −intercepts in the Standard Form of Equation 50
Graph an Equation in the Standard Form 51
Equations of Horizontal and Vertical lines 52
Graph a Horizontal or Vertical line 53
Graph an Equation in Point-Slope Form 54
Equation of Parallel and Perpendicular Lines 55
Compare Linear Function's Graph and Equations 56
Graphing Absolute Value Equations 57
Two-variable Linear Equations Word Problems 58
Answers – Chapter 4 59
Chapter 5: Inequalities and System of Equations 71
One–Step Inequalities 72
Multi –Step Inequalities 73
Write a Linear Inequality from a Graph 74
Graph Solutions to Linear Inequalities 75
Solve Advanced Linear Inequalities in Two-Variables 76
Graph Solutions to Advance Linear Inequalities 77
Absolute Value Inequalities 78
System of Equations 79
Find the Number of Solutions to a Linear Equation 80



Order of Operations

Calculate.

1) $16 + (30 \div 5) =$ _____

2) $(3 \times 9) \div (-3) =$ _____

3) $57 - (3 \times 8) =$ _____

4) $(-12) \times (7 - 3) =$ _____

5) $(18 - 7) \times (6) =$ _____

6) $(6 \times 10) \div (12 + 3) =$ _____

7) $(13 \times 2) - (24 \div 6) =$ _____

8) $(-5) + (4 \times 3) + 8 =$ _____

9) $(4 \times 2^3) + (16 - 9) =$ _____

10) $(3^2 \times 7) \div (-2 + 1) =$ _____

11) $[-2(48 \div 2^3)] - 6 =$ _____

12) $(-4) + (7 \times 8) + 18 =$ _____

13) $(3 \times 7) + (16 - 7) =$ _____

14) $[3^3 \times (48 \div 2^3)] \div (-2) =$ _

15) $(14 \times 3) - (3^4 \div 9) =$ _____

16) $(96 \div 12) \times (-3) =$ _____

17) $(48 \div 2^2) \times (-2) =$ _____

18) $(56 \div 7) \times (-5) =$ _____

19) $(-2^2) + (7 \times 9) - 21 =$ ___

20) $(2^4 - 9) \times (-6) =$ _____

21) $[4^3 \times (50 \div 5^2)] \div (-16) =$

22) $(3^2 \times 4^2) \div (-4 + 2) =$ ____

23) $6^2 - (-6 \times 4) + 3 =$ _____

24) $4^2 - (5^2 \times 3) =$ _____

25) $(-4) + (12^2 \div 3^2) - 7^2 =$ __

26) $(3^2 \times 5) + (-5^2 - 9) =$ ____

27) $2[(3^2 \times 5) \times (-6)] =$ _____

28) $(11^2 - 2^2) - (-7^2) =$ _____

29) $(2^2 \times 5) - (64 \div 8) =$ _____

30) $2[(3^2 \times 4) + (35 \div 5)] =$ ___

31) $(4^2 \times 3) \div (-6) =$ _____

32) $3^2[(4^3 \div 16) - (3^3 \div 27)] =$

Integers and Absolute Value

Calculate.

1) $4 - |6 - 10| =$ _____

2) $|14| - \frac{|-18|}{3} =$ _____

3) $\frac{|8\times-8|}{4} \times \frac{|-20|}{5} =$ _____

4) $|12 \times 3| + \frac{|-81|}{9} =$ _____

5) $4 - |11 - 18| - |3| =$ ____

6) $|18| - \frac{|-12|}{4} =$ _____

7) $\frac{|5\times-8|}{10} \times \frac{|-22|}{11} =$ _____

8) $|9 \times 3| + \frac{|-36|}{4} =$ _____

9) $|-42 + 7| \times \frac{|-2\times5|}{10} =$ _____

10) $6 - |17 - 11| - |5| =$ ____

11) $|13| - \frac{|-54|}{6} =$ _____

12) $\frac{|9\times-4|}{12} \times \frac{|-45|}{9} =$ _____

13) $|-75 + 50| \times \frac{|-4\times5|}{5} =$ ____

14) $\frac{|-26|}{13} \times \frac{|-32|}{8} =$ _____

15) $14 - |8 - 18| - |-12| =$ ____

16) $|29| - \frac{|-20|}{5} =$ _____

17) $\frac{|3\times8|}{2} \times \frac{|-33|}{3} =$ _____

18) $|-45 + 15| \times \frac{|-12\times5|}{6} =$ ____

19) $\frac{|-50|}{5} \times \frac{|-77|}{11} =$ _____

20) $12 - |2 - 7| - |15| =$ _____

21) $|18| - \frac{|-45|}{15} =$ _____

22) $\frac{|7\times8|}{4} \times \frac{|-48|}{12} =$ _____

23) $\frac{|30\times2|}{3} \times |-12| =$ _____

24) $\frac{|-36|}{9} \times \frac{|-80|}{8} =$ _____

25) $|-30 + 9| \times \frac{|-8\times5|}{8} =$ _____

26) $|16| - \frac{|-18|}{3} =$ _____

27) $12 - |10 - 24| + |5| =$ ____

28) $|-38 + 8| \times \frac{|-5\times6|}{10} =$ _____

Proportional Ratios

Solve each proportion for x.

1) $\frac{4}{7} = \frac{8}{x}, x = _____$

2) $\frac{9}{12} = \frac{x}{8}, x = _____$

3) $\frac{3}{5} = \frac{12}{x}, x = _____$

4) $\frac{3}{10} = \frac{x}{50}, x = _____$

5) $\frac{3}{11} = \frac{15}{x}, x = _____$

6) $\frac{6}{15} = \frac{x}{45}, x = _____$

7) $\frac{6}{19} = \frac{12}{x}, x = _____$

8) $\frac{7}{16} = \frac{x}{32}, x = _____$

9) $\frac{18}{21} = \frac{54}{x}, x = _____$

10) $\frac{13}{15} = \frac{39}{x}, x = _____$

11) $\frac{9}{13} = \frac{72}{x}, x = _____$

12) $\frac{8}{30} = \frac{x}{180}, x = _____$

13) $\frac{3}{19} = \frac{9}{x}, x = _____$

14) $\frac{1}{3} = \frac{x}{90}, x = _____$

15) $\frac{25}{45} = \frac{x}{9}, x = _____$

16) $\frac{1}{6} = \frac{9}{x}, x = _____$

17) $\frac{7}{9} = \frac{63}{x}, x = _____$

18) $\frac{54}{72} = \frac{x}{8}, x = _____$

19) $\frac{32}{40} = \frac{4}{x}, x = _____$

20) $\frac{21}{42} = \frac{x}{6}, x = _____$

21) $\frac{56}{72} = \frac{7}{x}, x = _____$

22) $\frac{1}{14} = \frac{x}{42}, x = _____$

23) $\frac{5}{7} = \frac{75}{x}, x = _____$

24) $\frac{30}{48} = \frac{x}{8}, x = _____$

25) $\frac{36}{88} = \frac{9}{x}, x = _____$

26) $\frac{62}{68} = \frac{x}{34}, x = _____$

27) $\frac{42}{60} = \frac{x}{10}, x = _____$

28) $\frac{8}{9} = \frac{x}{108}, x = _____$

29) $\frac{40}{6} = \frac{x}{3}, x = _____$

30) $\frac{88}{121} = \frac{x}{11}, x = _____$

31) $\frac{10}{24} = \frac{x}{48}, x = _____$

32) $\frac{32}{80} = \frac{x}{10}, x = _____$