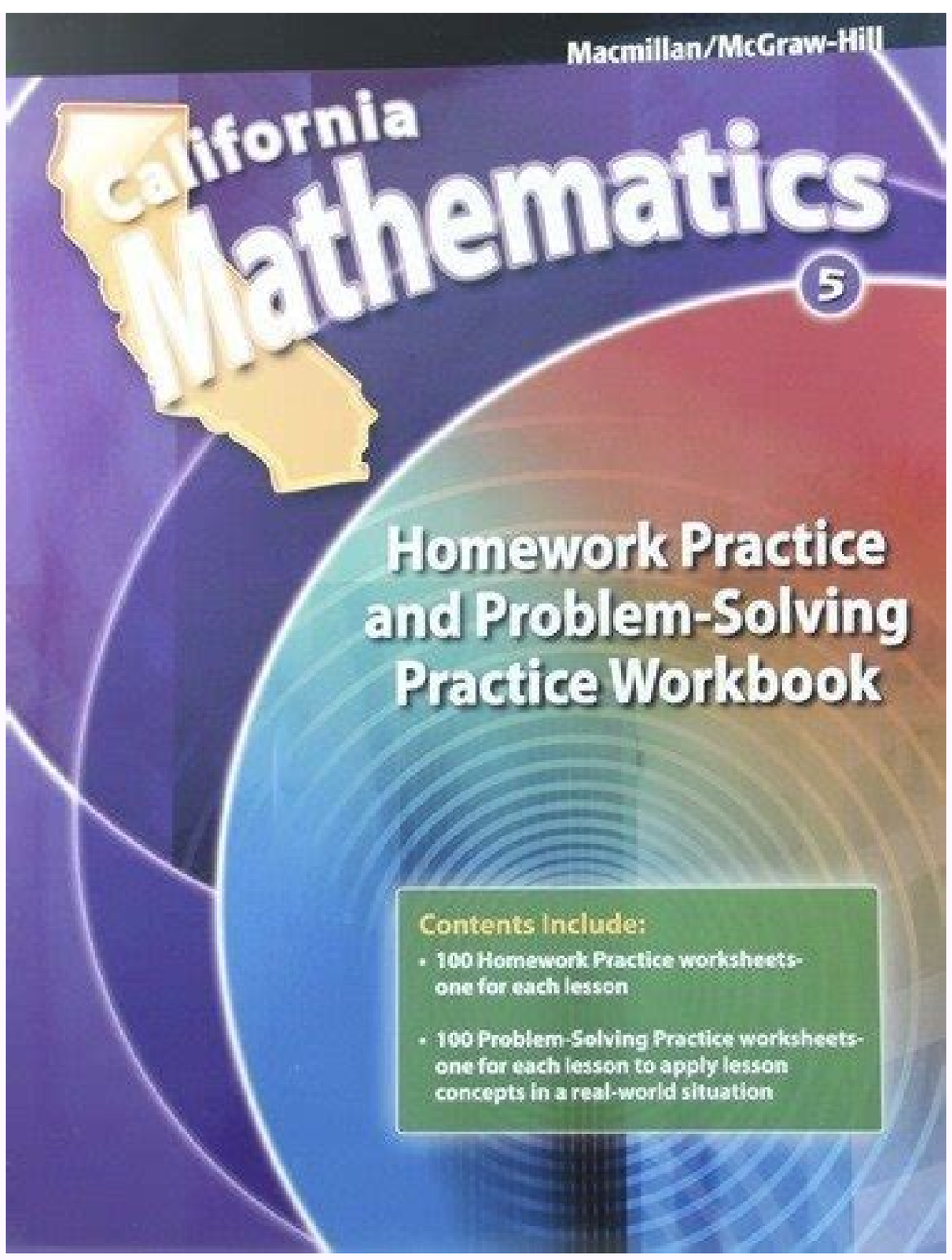
Homework practice workbook algebra 1 answer key

I'm not robot!

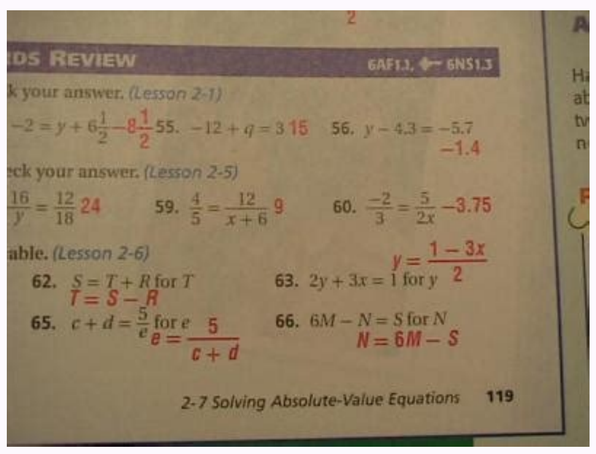


Directions: For problems 28 – 32, write your answer on the answer sheet. Be sure to answer all of the bullets for each problem!

28. Liam is choosing a new cell phone plan. Wireless Plus offers $65 a month plus $0.10 per gigabyte over the monthly limit. New Age Phones has a monthly fee of $35 per month, plus $0.20 per gigabyte over the monthly limit.
    - Write a system of equations that describes this situation.
    - For how many gigabytes over the monthly limit, will the two plans charge the same amount?
    - If you were to average 200 gigabytes over the monthly limit, which company would be the better value?

29. An ice cream store made a profit of $35700 in 1990 and a profit of $85360 in 2008. Write an equation that can be used to predict the profit, y, in terms of the year, x. Let x=0 represent the year 1990.
    - Predict the profit for the year 2011.
    - What does the y-intercept represent in the context of this problem?

30. A candy store finds that it can make a profit of P dollars each month by selling x boxes of candy. Using the formula: $P(x) = -.0013x^2 + 5.5x - 800$, how many boxes of candy must be sold in order to maximize their profits? What is the maximum profit?


2

DS REVIEW 6AF1.3, ← 6NS1.3

k your answer. *(Lesson 2-1)*

$-2 = y + 6\frac{1}{2}$ $-8\frac{1}{2}$ 55. $-12 + q = 3$ 15 56. $y - 4.3 = -5.7$ -1.4

ck your answer. *(Lesson 2-5)*

$\frac{16}{y} = \frac{12}{18}$ 24 59. $\frac{4}{5} = \frac{12}{x+6}$ 9 60. $\frac{-2}{3} = \frac{5}{2x}$ -3.75

able. *(Lesson 2-6)*

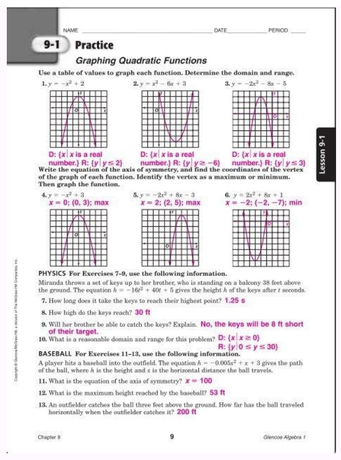
62. $S = T + R$ for T $T = S - R$

63. $2y + 3x = 1$ for y $y = \frac{1 - 3x}{2}$

65. $c + d = \frac{5}{e}$ for e $e = \frac{5}{c + d}$

66. $6M - N = S$ for N $N = 6M - S$

2-7 Solving Absolute-Value Equations 119



NAME _____ DATE_____ PERIOD ____

9-1 Practice

Graphing Quadratic Functions

Use a table of values to graph each function. Determine the domain and range.

1. $y = -x^2 + 2$ — D: {x | x is a real number.} R: {y | y ≤ 2}
2. $y = x^2 - 6x + 3$ — D: {x | x is a real number.} R: {y | y ≥ −6}
3. $y = -2x^2 - 8x - 5$ — D: {x | x is a real number.} R: {y | y ≤ 3}

Write the equation of the axis of symmetry, and find the coordinates of the vertex of the graph of each function. Identify the vertex as a maximum or minimum. Then graph the function.

4. $y = -x^2 + 3$ — $x = 0$; (0, 3); max
5. $y = -2x^2 + 8x - 3$ — $x = 2$; (2, 5); max
6. $y = 2x^2 + 8x + 1$ — $x = -2$; (−2, −7); min

PHYSICS For Exercises 7–9, use the following information.

Miranda throws a set of keys up to her brother, who is standing on a balcony 38 feet above the ground. The equation $h = -16t^2 + 40t + 5$ gives the height h of the keys after t seconds.

7. How long does it take the keys to reach their highest point? 1.25 s
8. How high do the keys reach? 30 ft
9. Will her brother be able to catch the keys? Explain. No, the keys will be 8 ft short of their target.
10. What is a reasonable domain and range for this problem? D: {x | x ≥ 0}; R: {y | 0 ≤ y ≤ 30}

BASEBALL For Exercises 11–13, use the following information.

A player hits a baseball into the outfield. The equation $h = -0.005x^2 + x + 3$ gives the path of the ball, where h is the height and x is the horizontal distance the ball travels.

11. What is the equation of the axis of symmetry? $x = 100$
12. What is the maximum height reached by the baseball? 53 ft
13. An outfielder catches the ball three feet above the ground. How far has the ball traveled horizontally when the outfielder catches it? 200 ft

Chapter 9 — 9 — Glencoe Algebra 1

Lesson 9-1

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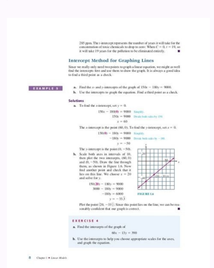

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Published on Dec 18, 2020Algebra 1. the work book itself is grey and the text book is blue and has a trolley on it its by glencoe mcgraw-hill its california algebra 1. Algebr... Landry ChristinaFollow this publisher - current follower count:0 1 Homework Practice Workbook2 To the Student This Homework Practice Workbook gives ou additional problems for the concept eercises in each lesson. The eercises are designed to aid our stud of mathematics b reinforcing important mathematical skills needed to succeed in the everda world. The materials are organized b chapter and lesson, with one Practice worksheet for ever lesson in Glencoe Algebra 1. To the Teacher These worksheets are the same ones found in the Chapter Resource Masters for Glencoe Algebra 1. The answers to these worksheets are available at the end of each Chapter Resource Masters booklet. Copright b The McGraw-Hill Companies, Inc. All rights reserved. Ecept as permitted under the United States Copright Act, no part of this publication ma be reproduced or distributed in an form or b an means, or stored in a database or retrieval sstem, without prior written permission of the publisher. Send all inquiries to: Glencoe/McGraw-Hill 8787 rion Place Columbus, H ISBN 13: ISBN 10: Homework Practice Workbook, Algebra 1 Printed in the United States of America3 Contents Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Lesson/Title Page 1-1 Variables and Epressions rder of perations Properties of Numbers The Distributive Propert Equations Relations Functions Logical Reasoning and Countereamples Writing Equations Solving ne-step Equations Solving Multi-Step Equations Solving Equations with the Variable on Each Side Solving Equations Involving Absolute Value Ratios and Proportions Percent of Change Literal Equations and Dimensional Analsis Weighted Averages Graphing Linear Relations Solving Linear Equations b Graphing Rate of Change and Slope Direct Variation Arithmetic Sequences as Linear Functions Proportional and Nonproportional Relationships Graphing Equations in Slope-Intercept Form Writing Equations in Slope-Intercept Form Writing Equations in Point-Slope Form Parallel and Perpendicular Lines Scatter Plots and Lines of Fit Regression and Median-Fit Lines Special Functions Solving Inequalities b Addition and Subtraction Solving Inequalities b Multiplication and Division Solving Multi-Step Inequalities Solving Compound Inequalities Inequalities Involving Absolute Value Graphing Inequalities in Two Variables iii Lesson/Title Page 6-1 Graphing Sstems of Equations Substitution Elimination Using Addition and Subtraction Elimination Using Multiplication Appling Sstems of Linear Equations rganizing Dada Using Matrices Using Matrices to Solve Sstems of Equations Sstems of Inequalities Multipling Monomials Dividing Monomials Scientific Notation Polnomials Adding and Subtracting Polnomials Multipling a Polnomial b a Monomial Multipling Polnomials Special Products Monomials and Factoring Using the Distributive Propert Quadratic Equations: 2 + b + c = Quadratic Equations: a 2 + b + c = Quadratic Equations: Differences of Squares Quadratic Equations: Perfects Squares Graphing Quadratic Functions Solving Quadratic Equations b Graphing Transformations of Quadratic Functions Solving Quadratic Equations b Completing the Square Solving Quadratic Equations b Using the Quadratic Formula Eponential Functions Growth and Deca Geometric Sequences as Eponential Functions Analzing Functions with Successive Differences and Ratios4 Lesson/Title Page 10-1 Square Root Functions Simplifing Radical Epressions perations with Radical Epressions Radical Equations The Pthagorean Theorem The Distance and Midpoint Formulas Similar Triangles Trigonometric Ratios Inverse Variation Rational Functions Simplifing Rational Epressions Multipling and Dividing Rational Epressions Lesson/Title Page 11-5 Dividing Polnomials Adding and Subtracting Rational Epressions Mied Epressions and Comple Fractions Rational Equations and Functions Designing a Surve Analzing Surve Results Statistics and Parameters Permutations and Combinations Probabilit of Compound Events Probabilit Distributions Probabilit Simulations iv5 1-1 Skills Practice Variables and Epressions Write a verbal epression for each algebraic epression. 1. 9a c + 2d h 5. 2b p 4 + 6r 8. 3n 2 - Write an algebraic epression for each verbal epression. 9. the sum of a number and 10 Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc less than k 11. the product of 18 and q more than twice m increased b three times a number 14. the difference of 17 and 5 times a number 15. the product of 2 and the second power of less than g to the fourth power Chapter 1 1 Glencoe Algebra 16 1-1 Practice Variables and Epressions Write a verbal epression for each algebraic epression f m d b 2-3c 3 7. k n2 7 Write an algebraic epression for each verbal epression. 9. the difference of 10 and u 10. the sum of 18 and a number 11. the product of 33 and j increased b 3 times decreased b twice a number more than the square of a number 15. three fourths the square of b 16. two fifths the cube of a number 17. BKS A used bookstore sells paperback fiction books in ecellent condition for $2.50 and in fair condition for $0.50. Write an epression for the cost of buing ecellent-condition paperbacks and f fair-condition paperbacks. Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 18. GEMETRY The surface area of the side of a right clinder can be found b multipling twice the number π b the radius times the height. If a circular clinder has radius r and height h, write an epression that represents the surface area of its side. Chapter 1 2 Glencoe Algebra 17 1-2 Skills Practice rder of perations Evaluate each epression (5 + 4) 7 6. (9-2) (3 + 5) (3 + 1) [30 - (10-2) 3] Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc [30 - (6-1) 2] 16. 2[12 + (5-2) 2] Evaluate each epression if = 6, = 8, and z = z 18. z z 20. 2(+ z) z + (-) (+ 2z) z 24. z 3 + (2-4) z z Chapter 1 3 Glencoe Algebra 18 1-2 Practice rder of perations Evaluate each epression (15-5) (3 + 4) (3 + 5) [10 - (27 9)] 11. 2[5 2 + (36 6)] [6(7-4) 2] (4) 14. (2 5) Evaluate each epression if a = 12, b = 9, and c = a 2 + b - c b 2 + 2a - c c(a + b) 19. 4a + 2b - c (a 2 4b) + c 21. c 2 (2b - a) 22. bc2 + a c 23. 2c3 - ab (a - b) 2-5c 25. b2-2c 2 a + c - b 26. CAR RENTAL Ann Carlle is planning a business trip for which she needs to rent a car. The car rental compan charges $36 per da plus $0.50 per mile over 100 miles. Suppose Ms. Carlle rents the car for 5 das and drives 180 miles. a. Write an epression for how much it will cost Ms. Carlle to rent the car. b. Evaluate the epression to determine how much Ms. Carlle must pa the car rental compan. 27. GEMETRY The length of a rectangle is 3n + 2 and its width is n - 1. The perimeter of the rectangle is twice the sum of its length and its width. a. Write an epression that represents the perimeter of the rectangle. b. Find the perimeter of the rectangle when n = 4 inches. Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Chapter 1 4 Glencoe Algebra 19 1-3 Skills Practice Properties of Numbers Evaluate each epression. Name the propert used in each step. 1. 7( ) 2. 2[5 - (15 3)] [7 - (2 3)] 4. 4[8 - (4 2)] [10-2(2 + 3)] 6. 2(6 3-1) 1 2 Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc Chapter 1 5 Glencoe Algebra 110 1-3 Practice Properties of Numbers Evaluate each epression. Name the propert used in each step (9-3 2) ( ) Evaluate each epression using properties of numbers. Name the propert used in each step SALES Althea paid $5.00 each for two bracelets and later sold each for $ She paid $8.00 each for three bracelets and sold each of them for $9.00. a. Write an epression that represents the profit Althea made. b. Evaluate the epression. Name the propert used in each step. 6. SCHL SUPPLIES Kristen purchased two binders that cost $1.25 each, two binders that cost $4.75 each, two packages of paper that cost $1.50 per package, four blue pens that cost $1.15 each, and four pencils that cost $.35 each. a. Write an epression to represent the total cost of supplies before ta. b. What was the total cost of supplies before ta? Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Chapter 1 6 Glencoe Algebra 111 1-4 Skills Practice The Distributive Propert Use the Distributive Propert to rewrite each epression. Then evaluate. 1. 4(3 + 5) 2. 2(6 + 10) 3. 5(7-4) 4. (6-2) (2 Use the Distributive Propert to rewrite each epression. Then evaluate. 9. (a + 7) (h - 10) 3) 11. 3(m + n) 12. 2(- + 1) Simplif each epression. If not possible, write simplified g + g Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc a 2-2a (n + 2n) 19. 4(2b - b) 20. 3q 2 + q - q 2 Write an algebraic epression for each verbal epression. Then simplif, indicating the properties used. 21. The product of 9 and t squared, increased b the sum of the square of t and times the sum of r and d squared minus 2 times the sum of r and d squared Chapter 1 7 Glencoe Algebra 112 1-4 Practice The Distributive Propert Use the Distributive Propert to rewrite each epression. Then evaluate. 1. 9(7 + 8) 2. 7(6-4) 3. (4 + 6) (4 1 4) Use the Distributive propert to rewrite each epression. Then simplif. 7. (9 - p)3 8. (5-3) (f) (3b) 11. m(n + 4) 12. (c - 4)d Simplif each epression. If not possible, write simplified. 13. w + 14w - 6w 14. 3(5 + 6h) b 2 + 9b t 3-17t a 2 + 6a + 2b (6p + 2q - 2p) Write an algebraic epression for each verbal epression. Then simplif, indicating the properties used times the difference of f squared and g, increased b the sum of f squared and 2g times the sum of and squared plus 5 times the difference of 2 and 21. DINING UT The Ross famil recentl dined at an Italian restaurant. Each of the four famil members ordered a pasta dish that cost $11.50, a drink that cost $1.50, and dessert that cost $2.75. a. Write an epression that could be used to calculate the cost of the Ross dinner before adding ta and a tip. Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. b. What was the cost of dining out for the Ross famil? Chapter 1 8 Glencoe Algebra 113 1-5 Skills Practice Equations Find the solution of each equation if the replacement sets are A = {4, 5, 6, 7, 8} and B = {9, 10, 11, 12, 13}. 1. 5a - 9 = a - 8 = a + 21 = b + 15 = b - 12 = b - 3 = 0 Find the solution of each equation using the given replacement set = 5 4 ; { 1 2, 3 4, 1, 5 4} = 13 9 ; { 5 9, 2 3, 7 9} (+ 2) = 5 6 ; { 2 3, 3 4, 5 4, 4 3} (+ 5) = 5.2; {1.2, 1.3, 1.4, 1.5} Solve each equation = 12. = Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc (4) + 4 3(3-1) = a 14. c = = b 16. 6(7-2) 3(8) + 6 = n 17. SHPPING NLINE Jennifer is purchasing CDs and a new CD plaer from an online store. She pas $10 for each CD, as well as $50 for the CD plaer. Write and solve an equation to find the total amount Jennifer spent if she bus 4 CDs and a CD plaer from the store. 18. TRAVEL An airplane can travel at a speed of 550 miles per hour. Write and solve an equation to find the time it will take to fl from London to Montreal, a distance of approimatel 3300 miles. Chapter 1 9 Glencoe Algebra 114 1-5 Practice Equations Find the solution of each equation if the replacement sets are a = {0, 1 2, 1, 3 2, 2 } and b = {3, 3.5, 4, 4.5, 5}. 1. a + 1 = b - 8 = a + 18 = b - 8 = a = b + 9 = 16 Solve each equation. 7. = w = = d = k 11. = 4(22-4) 3(6) (22) + 4(3) = p 4(2 3-4) 13. TEACHING A teacher has 15 weeks in which to teach si chapters. Write and then solve an equation that represents the number of lessons the teacher must teach per week if there is an average of 8.5 lessons per chapter. 14. CELL PHNES Gabriel pas $40 a month for basic cell phone service. In addition, Gabriel can send tet messages for $0.20 each. Write and solve an equation to find the total amount Gabriel spent this month if he sends 40 tet messages. Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Chapter 1 10 Glencoe Algebra 115 1-6 Skills Pratice Representing Relations Epress each relation as a table, a graph, and a mapping. Then determine the domain and range. 1. {(-1, -1), (1, 1), (2, 1), (3, 2)} 2. {(0, 4), (-4, -4), (-2, 3), (4, 0)} Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 3. {(3, -2), (1, 0), (-2, 4), (3, 1)} Identif the independent and dependent variables for each relation. 4. The more hours Maribel works at her job, the larger her pacheck becomes. 5. Increasing the price of an item decreases the amount of people willing to bu it. Chapter 1 11 Glencoe Algebra 116 1-6 Practice Representing Relations Epress each relation as a table, a graph, and a mapping. Then determine the domain and range. 1. {(4, 3), (-1, 4), (3, -2), (-2, 1)} Describe what is happening in each graph. 2. The graph below represents the height of a 3. The graph below represents a tsunami (tidal wave) as it approaches shore. student taking an eam. Height Number of Questions Answered Time Time Epress the relation shown in each table, mapping, or graph as a set of ordered pairs. 4. X Y 5. X Y BASEBALL The graph shows the number of home runs hit b Andruw Jones of the Atlanta Braves. Epress the relation as a set of ordered pairs. Then describe the domain and range. Home Runs Andruw Jones Home Runs Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc Year Source: ESPN Chapter 1 12 Glencoe Algebra 117 1-7 Skills Practice Representing Functions Determine whether each relation is a function. Eplain. 1. X Y 2. X Y 3. X Y {(2, 5), (4, -2), (3, 3), (5, 4), (-2, 5)} 8. {(6, -1), (-4, 2), (5, 2), (4, 6), (6, 5)} 9. = = 11 Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc If f() = and g() = 2 -, find each value. 14. f(4) 15. f(8) 16. f(-2) 17. g(2) 18. g(-3) 19. g(-6) 20. f(2) f(1) g(2) g(-1) f(+ 1) 25. g(3b) Chapter 1 13 Glencoe Algebra 118 1-7 Practice Representing Functions Determine whether each relation is a function. Eplain. 1. X Y 2. X Y {(1, 4), (2, -2), (3, -6), (-6, 3), (-3, 6)} 5. {(6, -4), (2, -4), (-4, 2), (4, 6), (2, 6)} 6. = = 2 If f() = 2-6 and g() = - 2 2, find each value. 8. f(2) 9. f (g(-1) 2) g (- 12. f(7) g(-3)) 14. f(h + 9) 15. g(3) 16. 2[g(b) + 1] 17. WAGES Martin earns $7.50 per hour proofreading ads at a local newspaper. His weekl wage w can be described b the equation w = 7.5h, where h is the number of hours worked. a. Write the equation in functional notation. b. Find f(15), f(20), and f(25). 18. ELECTRICITY The table shows the relationship between resistance R and current I in a circuit. Resistance (ohms) Current (amperes) a. Is the relationship a function? Eplain. b. If the relation can be represented b the equation IR = 12, rewrite the equation in functional notation so that the resistance R is a function of the current I. Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. c. What is the resistance in a circuit when the current is 0.5 ampere? Chapter 1 14 Glencoe Algebra 119 1-8 Skills Pratice Logical Reasoning and Countereamples Identif the hpothesis and conclusion of each statement. 1. If it is Sunda, then mail is not delivered. 2. If ou are hiking in the mountains, then ou are outdoors. 3. If 6n + 4 > 58, then n > 9. Identif the hpothesis and conclusion of each statement. Then write the statement in if-then form. 4. Martina works at the baker ever Saturda. 5. Ivan onl runs earl in the morning. 6. A polgon that has five sides is a pentagon. Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Determine whether a valid conclusion follows from the statement If Hector scores an 85 or above on his science eam, then he will earn an A in the class for the given condition. If a valid conclusion does not follow, write no valid conclusion and eplain wh. 7. Hector scored an 86 on his science eam. 8. Hector did not earn an A in science. 9. Hector scored 84 on the science eam. 10. Hector studied 10 hours for the science eam. Find a counterample for each conditional statement. 11. If the car will not start, then it is out of gas. 12. If the basketball team has scored 100 points, then the must be winning the game. 13. If the Commutative Propert holds for addition, then it holds for subtraction. 14. If 2n + 3 < 17, then n 7. Chapter 1 15 Glencoe Algebra 120 1-8 Practice Logical Reasoning and Countereamples Identif the hpothesis and conclusion of each statement. 1. If it is raining, then the meteorologist s prediction was accurate. 2. If = 4, then = 11. Identif the hpothesis and conclusion of each statement. Then write the statement in if-then form. 3. When Joseph has a fever, he stas home from school. 4. Two congruent triangles are similar. Determine whether a valid conclusion follows from the statement If two numbers are even, then their product is even for the given condition. If a valid conclusion does not follow, write no valid conclusion and eplain wh. 5. The product of two numbers is Two numbers are 8 and 6. Find a counterample for each conditional statement. 7. If the refrigerator stopped running, then there was a power outage. 8. If 6h - 7 < 5, then h GEMETRY Consider the statement: If the perimeter of a rectangle is 14 inches, then its area is 10 square inches. a. State a condition in which the hpothesis and conclusion are valid. b. Provide a counterample to show the statement is false. 10. ADVERTISING A recent television commercial for a car dealership stated that no reasonable offer will be refused. Identif the hpothesis and conclusion of the statement. Then write the statement in if-then form. Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Chapter 1 16 Glencoe Algebra 121 2-1 Skills Practice Writing Equations Translate each sentence into an equation. 1. Two added to three times a number m is the same as Twice a increased b the cube of a equals b. 3. Seven less than the sum of p and t is as much as The sum of and its square is equal to times z. 5. Four times the sum of f and g is identical to si times g. Translate each sentence into a formula. 6. The perimeter P of a square equals four times the length of a side l. 7. The area A of a square is the length of a side l squared. 8. The perimeter P of a triangle is equal to the sum of the lengths of sides a, b, and c. 9. The area A of a circle is pi times the radius r squared. Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 10. The volume V of a rectangular prism equals the product of the length l, the width w, and the height h. Translate each equation into a sentence. 11. g + 10 = 3g 12. 2p + 4t = (a + b) = 9a = (f +) = f k2 - n 2 = 2b Write a problem based on the given information. 17. c = cost per pound of plain coffee beans 18. p = cost of dinner c + 3 = cost per pound of flavored coffee beans 0.15p = cost of a 15% tip 2c + (c + 3) = 21 p p = 23 Chapter 2 17 Glencoe Algebra 122 2-1 Practice Writing Equations Translate each sentence into an equation. 1. Fift-three plus four times b is as much as The sum of five times h and twice g is equal to ne fourth the sum of r and ten is identical to r minus Three plus the sum of the squares of w and is 32. Translate each sentence into a formula. 5. Degrees Kelvin K equals 273 plus degrees Celsius C. 6. The total cost C of gas is the price p per gallon times the number of gallons g. 7. The sum S of the measures of the angles of a polgon is equal to 180 times the difference of the number of sides n and 2. Translate each equation into a sentence. 8. r - (4 + p) = 1 3 r t + 2 = t 10. 9(2 +) = (m - n) = + 7 Write a problem based on the given information. 12. a = cost of one adult s ticket to zoo 13. c = regular cost of one airline ticket a - 4 = cost of one children s ticket to zoo 0.20c = amount of 20% promotional discount 2a + 4(a - 4) = 38 3(c c) = GEGRAPHY About 15% of all federall-owned land in the 48 contiguous states of the United States is in Nevada. If F represents the area of federall-owned land in these states, and N represents the portion in Nevada, write an equation for this situation. 15. FITNESS Deanna and Pietra each go for walks around a lake a few times per week. Last week, Deanna walked 7 miles more than Pietra. a. If p represents the number of miles Pietra walked, write an equation that represents the total number of miles T the two girls walked. Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. b. If Pietra walked 9 miles during the week, how man miles did Deanna walk? c. If Pietra walked 11 miles during the week, how man miles did the two girls walk together? Chapter 2 18 Glencoe Algebra 123 2-2 Skills Practice Solving ne-step Equations Solve each equation. Check our solution = 8 2. w + 14 = p - 4 = = = b = n + (-28) = (-10) = = t + (-19) 10. j - (-17) = = d + (-10) 12. u + (-5) = = c - (-3) = = w - (-8) (-74) = (-h) = = 20 - (-j) Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc z = t = f = = 11v d = = -24a 25. c 4 = a 16 = = d d 7 = t 4 = = n = 2 3 z q = p = a 10 = 2 5 Chapter 2 19 Glencoe Algebra 124 2-2 Practice Solving ne-step Equations Solve each equation. Check our solution. 1. d - 8 = v + 12 = b - 2 = = m = a = (-n) = r = f + (-3) = j = z = = 15m = 27r = j 12 = a 15 = g 27 = q 24 = 1 6 Write an equation for each sentence. Then solve the equation. 19. Negative nine times a number equals Negative one eighth of a number is Five siths of a number is times a number equals HURRICANES The da after a hurricane, the barometric pressure in a coastal town has risen to 29.7 inches of mercur, which is 2.9 inches of mercur higher than the pressure when the ee of the hurricane passed over. a. Write an addition equation to represent the situation. b. What was the barometric pressure when the ee passed over? 24. RLLER CASTERS Kingda Ka in New Jerse is the tallest and fastest roller coaster in the world. Riders travel at an average speed of 61 feet per second for 3118 feet. The reach a maimum speed of 187 feet per second. a. If represents the total time that the roller coaster is in motion for each ride, write an epression to represent the sitation. (Hint: Use the distance formula d = rt.) b. How long is the roller coaster in motion? Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Chapter 2 20 Glencoe Algebra 125 2-3 Skills Practice Solving Multi-Step Equations Solve each problem b working backward. 1. A number is divided b 2, and then the quotient is added to 8. The result is 33. Find the number. 2. Two is subtracted from a number, and then the difference is divided b 3. The result is 30. Find the number. 3. A number is multiplied b 2, and then the product is added to 9. The result is 49. What is the number? 4. ALLWANCE After Ricardo received his allowance for the week, he went to the mall with some friends. He spent half of his allowance on a new paperback book. Then he bought himself a snack for $1.25. When he arrived home, he had $5.00 left. How much was his allowance? Solve each equation. Check our solution = = 3a = c = w = v = n 3-8 = = h 3-4 = 13 Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc d = a 5-2 = w = q - 7 = g + 6 = z - 8 = m + 2 = c Write an equation and solve each problem. = b + 1 = Twice a number plus four equals 6. What is the number? 24. Siteen is seven plus three times a number. Find the number. 25. Find two consecutive integers whose sum is Find three consecutive integers whose sum is 36. Chapter 2 21 Glencoe Algebra 126 2-3 Practice Solving Multi-Step Equations Solve each problem b working backward. 1. Three is added to a number, and then the sum is multiplied b 4. The result is 16. Find the number. 2. A number is divided b 4, and the quotient is added to 3. The result is 24. What is the number? 3. Two is subtracted from a number, and then the difference is multiplied b 5. The result is 30. Find the number. 4. BIRD WATCHING While Michelle sat observing birds at a bird feeder, one fourth of the birds flew awa when the were startled b a noise. Two birds left the feeder to go to another stationed a few feet awa. Three more birds flew into the branches of a nearb tree. Four birds remained at the feeder. How man birds were at the feeder initiall? Solve each equation. Check our solution n - 19 = f = t + 4 = u = 2 9. d = b 3-6 = = r = a f = k = -4 = k = = g = m = Write an equation and solve each problem. 20. Seven less than four times a number equals 13. What is the number? 21. Find two consecutive odd integers whose sum is Find two consecutive even integers whose sum is Find three consecutive odd integers whose sum is CIN CLLECTING Jung has a total of 92 coins in his coin collection. This is 8 more than three times the number of quarters in the collection. How man quarters does Jung have in his collection? Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Chapter 2 22 Glencoe Algebra 127 2-4 Justif each step. Skills Practice Solving Equations with the Variable on Each Side 1. 4k - 3 = 2k + 5 4k - 3-2k = 2k + 5-2k a. 2k - 3 = 5 b. 2k = c. 2k = 8 d. 2k 2 = 8 2 e. k = 4 f. 2. 2(8u + 2) = 3(2u - 7) 16u + 4 = 6u - 21 a. 16u + 4-6u = 6u u b. 10u + 4 = -21 c. Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 10u = d. 10u = -25 e. 10u 10 = f. u = -2.5 g. Solve each equation. Check our solution. 3. 2m + 12 = 3m h - 8 = h a - 3 = 3-2a 6. 4n - 12 = 12-4n = = r = 5r k = 7 + 4k 11. 8q + 12 = 4(3 + 2q) 12. 3(5j + 2) = 2(3j - 6) 13. 6(-3v + 1) = 5(-2v - 2) (2b - 4) = 5(-2b + 6) 15. 3(8-3t) = 5(2 + t) 16. 2(3u + 7) = -4(3-2u) 17. 8(2f - 2) = 7(3f + 2) 18. 5(-6-3d) = 3(8 + 7d) 19. 6(w - 1) = 3(3w + 5) 20. 7(-3 + 2) = 8(3-2) v - 6 = v = Chapter 2 23 Glencoe Algebra 128 2-4 Practice Solving Equations with the Variable on Each Side Solve each equation. Check our solution = r - 11 = 4r m = 6-6m n = -4n k - 3 = k (6 -) = 7. 3(-2-3) = (4 - w) = 3(2w + 2) 9. 9(4b - 1) = 2(9b + 3) 10. 3(6 + 5) = 2(-5 + 4) = 2 - (+ 4) (3j - 2) = 4(1 + j) t - t = t f = f = (3g - 2) = g (5-2h) = h k = 1 8 k (n + 1) = 1 (3n - 5) (2m - 16) = 1 (2m + 4) (d - 8) - 5 = 9(d + 2) (a - 8) + 7 = 5(a + 2) - 3a NUMBERS Two thirds of a number reduced b 11 is equal to 4 more than the number. Find the number. 24. NUMBERS Five times the sum of a number and 3 is the same as 3 multiplied b 1 less than twice the number. What is the number? 25. NUMBER THERY Tripling the greater of two consecutive even integers gives the same result as subtracting 10 from the lesser even integer. What are the integers? Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 26. GEMETRY The formula for the perimeter of a rectangle is P = 2l, + 2w, where l is the length and w is the width. A rectangle has a perimeter of 24 inches. Find its dimensions if its length is 3 inches greater than its width. Chapter 2 24 Glencoe Algebra 129 2-5 Skills Practice Solving Equations Involving Absolute Value Evaluate each epression if a = 2, b = -3, and c = a b c a + b - c Solve each equation. Then graph the solution set. 5. w + 1 = 5 6. c - 3 = n + 2 = 1 8. t + 6 = w - 2 = k - 5 = 4 Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Write an equation involving absolute value for each graph Chapter 2 25 Glencoe Algebra 130 2-5 Practice Solving Equations Involving Absolute Value Evaluate each epression if = -1, = 3, and z = z z z Solve each equation. Then graph the solution set. 5. 2z - 9 = r = t + 6 = g - 5 = Write an equation involving absolute value for each graph FITNESS Taisha uses the elliptical cross-trainer at the gm. Her general goal is to burn 280 Calories per workout, but she varies b as much as 25 Calories from this amount on an given da. Write and solve an equation to find the maimum and minimum number of Calories Taisha burns on the cross-trainer. 14. TEMPERATURE A thermometer is guaranteed to give a temperature no more than 1.2 F from the actual temperature. If the thermometer reads 28 F, write and solve an equation to find the maimum and minimum temperatures it could be. Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Chapter 2 26 Glencoe Algebra 131 2-6 Skills Practice Ratios and Proportions Determine whether each pair of ratios are equivalent ratios. Write es or no , , , , , , , , Solve each proportion. If necessar, round to the nearest hundredth a = b = g = a = z = f = Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc = 36 m = 6 f = 30 m c = = = b = = n = 20 g = BATING Hue s boat used 5 gallons of gasoline in 4 hours. At this rate, how man gallons of gasoline will the boat use in 10 hours? Chapter 2 27 Glencoe Algebra 132 2-6 Practice Ratios and Proportions Determine whether each pair of ratios are equivalent ratios. Write es or no , , , , , , , , , Solve each proportion. If necessar, round to the nearest hundredth a = = 4 w = = 12 h 11. v 46 = u = = g 16 = = k = = z = 2 a = 8 t v = a - 4 = = q = = 12 b = r + 2 = m 6 = n 6 = m - 1 = = PAINTING Ysidra paints a room that has 400 square feet of wall space in hours. At this rate, how long will it take her to paint a room that has 720 square feet of wall space? 35. VACATIN PLANS Walker is planning a summer vacation. He wants to visit Petrified National Forest and Meteor Crater, Arizona, the 50,000-ear-old impact site of a large meteor. n a map with a scale where 2 inches equals 75 miles, the two areas are about 1 1 inches apart. What is the distance between Petrified National Forest and Meteor 2 Crater? Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. Chapter 2 28 Glencoe Algebra 133 2-7 Skills Practice Percent of Change State whether each percent of change is a percent of increase or a percent of decrease. Then find each percent of change. Round to the nearest whole percent. 1. original: original: 50 new: 10 new: original: original: 25 new: 50 new: original: original: 90 new: 30 new: original: original: 60 new: 60 new: 45 Find the total price of each item. 9. dress: $ binder: $14.50 ta: 5% ta: 7% Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 11. hardcover book: $ groceries: $47.52 ta: 6% ta: 3% 13. filler paper: $ shoes: $65.00 ta: 6.5% ta: 4% 15. basketball: $ concert tickets: $48.00 ta: 6% ta: 7.5% Find the discounted price of each item. 17. backpack: $ monitor: $ discount: 20% discount: 50% 19. CD: $ shirt: $25.50 discount: 20% discount: 40% 21. sleeping bag: $ coffee maker: $ discount: 25% discount: 45% Chapter 2 29 Glencoe Algebra 134 2-7 Practice Percent of Change State whether each percent of change is a percent of increase or a percent of decrease. Then find each percent of change. Round to the nearest whole percent. 1. original: original: original: 200 new: 10 new: 160 new: original: original: original: 128 new: 25 new: 60 new: original: original: original: 58.8 new: 35.5 new: 64 new: 65.7 Find the total price of each item. 10. concrete blocks: $ crib: $ jacket: $ ta: 6% ta: 6.5% ta: 5.5% 13. class ring: $ blanket: $ kite: $18.90 ta: 6% ta: 7% ta: 5% Find the discounted price of each item. 16. dr cleaning: $ computer game: $ luggage: $ discount: 15% discount: 25% discount: 30% 19. stationer: $ prescription glasses: $ pair of shorts: $24.99 discount: 10% discount: 20% discount: 45% Find the final price of each item. 22. television: $ DVD plaer: $ printer: $ discount: 25% discount: 20% discount: 30% ta: 6% ta: 7% ta: 5.5% 25. INVESTMENTS The price per share of a stock decreased from $90 per share to $36 per share earl in B what percent did the price of the stock decrease? Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 26. HEATING CSTS Customers of a utilit compan received notices in their monthl bills that heating costs for the average customer had increased 125% over last ear because of an unusuall severe winter. In Januar of last ear, the Garcia s paid $120 for heating. What should the epect to pa this Januar if their bill increased b 125%? Chapter 2 30 Glencoe Algebra 135 2-8 Skills Practice Literal Equations and Dimensional Analsis Solve each equation or formula for the variable indicated. 1. 7t =, for t 2. r = wp, for p 3. q - r = r, for r 4. 4m - t = m, for m 5. 7a - b = 15a, for a 6. -5c + d = 2c, for c = 1, for 8. d + 3n = 1, for n 9. 7f + g = 5, for f 10. a - c = b, for 11. rt - 2n =, for t 12. bc + 3g = 2k, for c Copright Glencoe/McGraw-Hill, a division of The McGraw-Hill Companies, Inc. 13. kn + 4f = 9v, for n 14. 8c + 6j = 5p, for c c p = d, for c = d, for c 2 = r, for p 18. b - 4z = a, for b The volume of a bo V is given b the formula V = lwh, where l is the length, w is the width, and h is the height. a. Solve the formula for h. b. What is the height of a bo with a volume of 50 cubic meters, length of 10 meters, and width of 2 meters? 20. Trent purchases 44 euros worth of souvenirs while on vacation in France. If $1 U.S. = euros, find the cost of the souvenirs in United States dollars. Round to the nearest cent. Chapter 2 31 Glencoe Algebra 136 2-8 Practice Literal Equations and Dimensional Analsis Solve each equation or formula for the variable indicated. 1. d = rt, for r 2. 6w - = 2z, for w 3. m + 4 = 3t, for 4. 9s - 5g = -4u, for s 5. ab + 3c = 2, for b 6. 2p = k - t, for m + a = a + r, for m 8. 2 h + g = d, for h v =, for a - q = k, for a r = h, for 12. 3b - 4 = c, for b w - = 7w - 2, for w 14. 3l + = 5 + 5l, for l 15. ELECTRICITY The formula for hm s Law is E = IR, where E represents voltage measured in volts, I represents current measured in amperes, and R represents resistance measured in ohms. a. Solve the formula for R. b. Suppose a current of 0.25 ampere flows through a resistor connected to a 12-volt batter. What is the resistance in the circuit? 16. MTIN In uniform circular motion, the speed v of a point on the edge of a spinning disk is v = 2π r, where r is the radius of the disk and t is the time it takes the point to t travel once around the circle. a. Solve the formula for r. b. Suppose a merr-go-round is spinning once ever 3 seconds. If a point on the outside edge has a speed of feet per second, what is the radius of the merr-go-round? (Use 3.14 for π.) 17. HIGHWAYS Interstate 90 is the longest interstate highwa in the United States, connecting the cities of Seattle, Washington and Bo

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