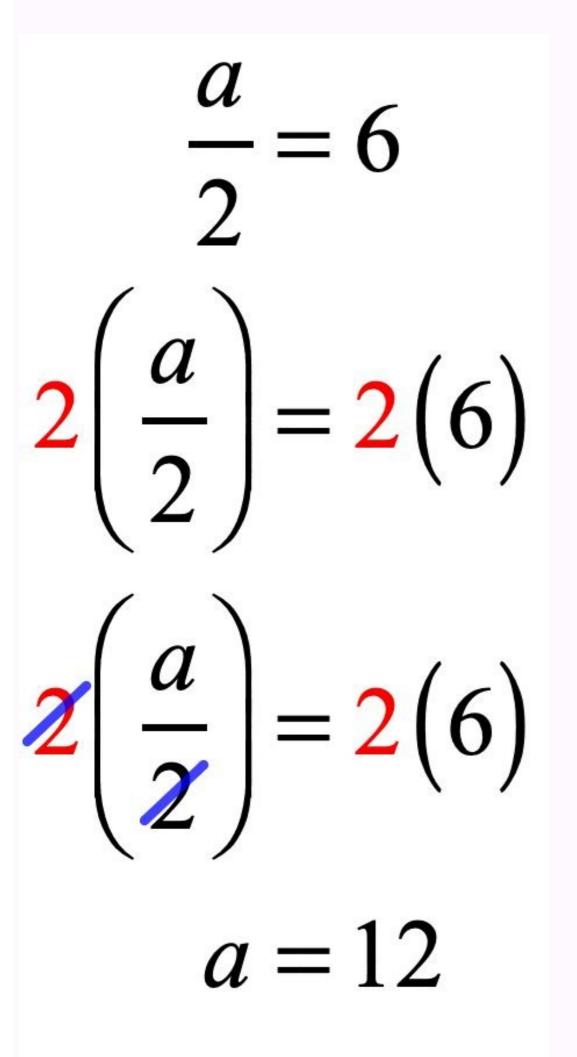
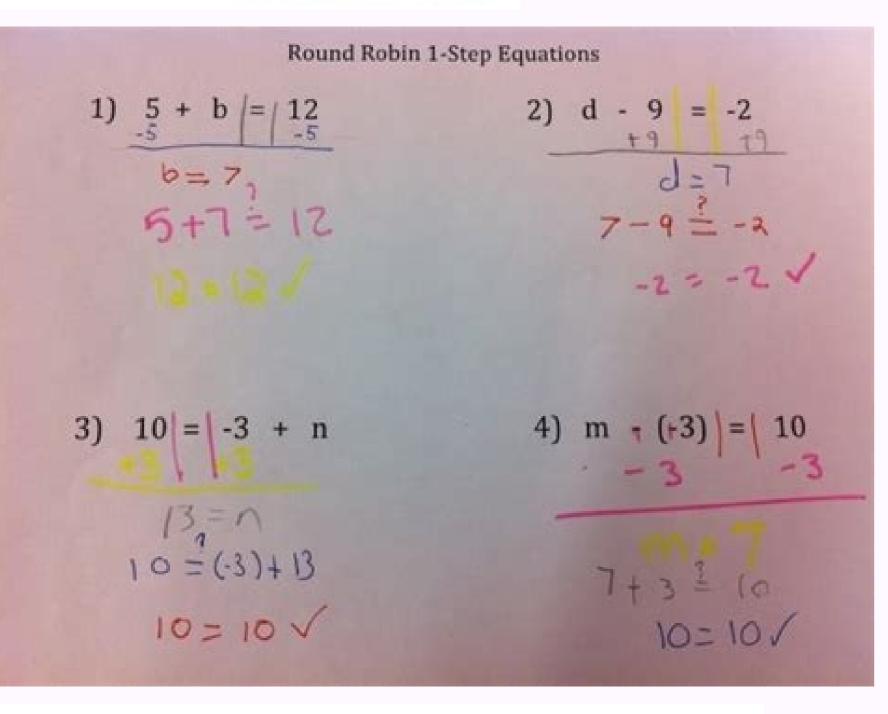




One step equations with fractions worksheet answers

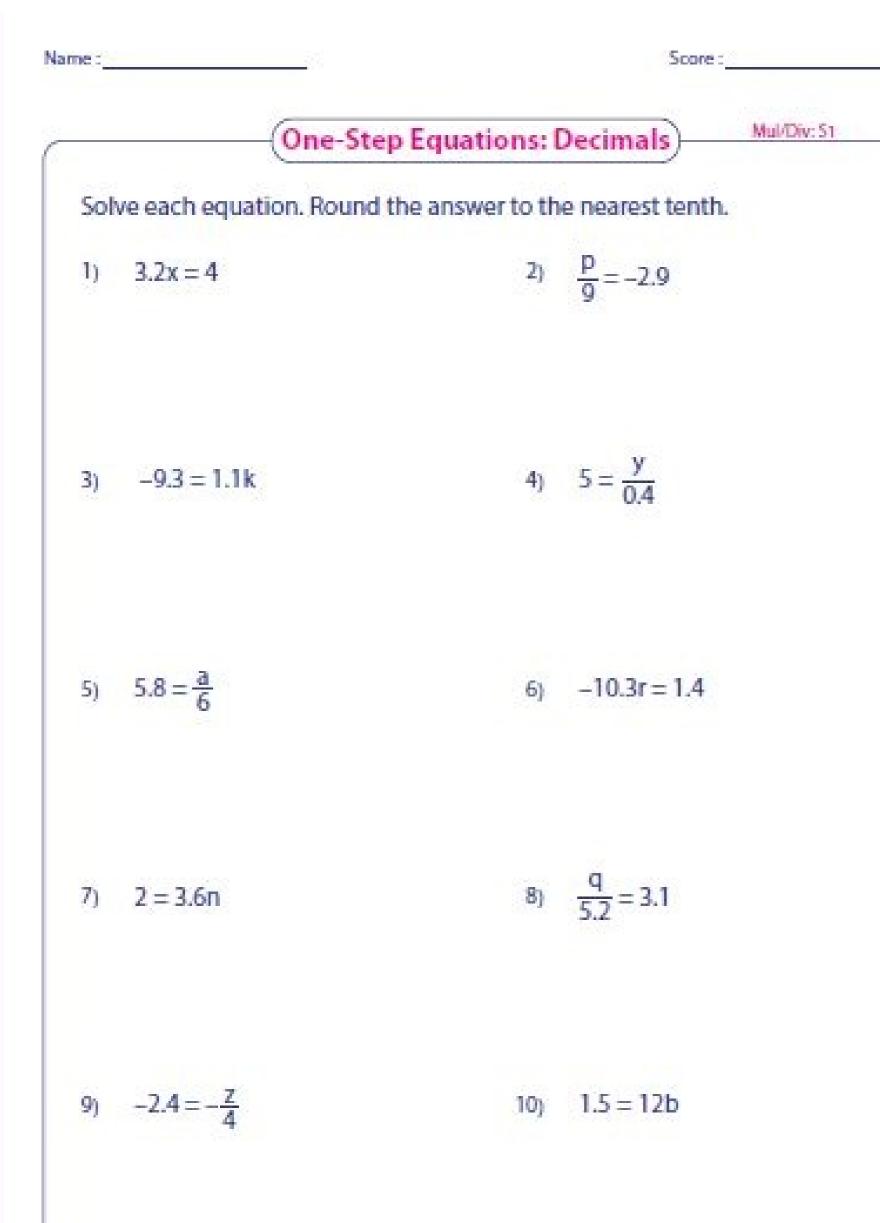


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W5 #10		WS: 1.1a - One Step Equations		Name	
Directions: Solve	Standard	H.1A.4.CI: I can solve a	one-step equation		
1. w + 8 = -3	2. -1 + x = -10	3. 100 = x + 20	415 + t = 60	5. <i>x</i> + 12 = 30	
. <i>h</i> + 13 = 7	7. -14 = 3 + <i>x</i>	8. 32 = <i>n</i> + 5	9. <i>d</i> = 9 = -5	10. w - 4 = 8	
1. 28 = <i>h</i> - 11	12. w - 7 = -20	13. 12 + <i>n</i> = 7	14. 2 + x = 24	15. -36 = <i>n</i> - 12	
16. 6x = 24	17. 9k = 63	18. 28 = 2 <i>n</i>	19 5y = 30	20 8q = 64	

eavertoomath.org		Page 1		ws	5.42
36. $\cdot 18 = \frac{x}{4}$	37. $\frac{-3}{4}x = -27$	38. 28 = $\frac{2}{3}n$	39. $\frac{-1}{5}x = 11$	40. -60 = $\frac{-4}{5}t$	
313 = <u>-1</u> 18 n	32. $\frac{1}{2}y = 14$	33. $\frac{6}{5}x = 24$	34. $\frac{18}{4}v = -18$	35. $\frac{9}{5}k = 63$	
26. $\frac{x}{2} = 7$	27. ^a ₇ = 56	28. $\frac{1}{9}y = 20$	29. <u>*</u> = -4	30. $21 = \frac{w}{2}$	
2121 = 7m	22. 18v = -18	23. -3 <i>x</i> = -27	24. -60 = -12 <i>t</i>	25x = 11	



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by 3 3x/3 = 9/3 x = 3 SOLVING EQUATIONS USING ADDITION OR SUBTRACTION Solve the equation. (100% - 50%)x = 4.5 (1 - 0.5)x = 12 = 9 50% of the battery life of the one year old cell phone is 0.50 x 9 = 4.5 The original battery life of the phone is 12 hours. Here you can learn the topics like Solving Equations, Solving Multi-step Equations, Solving Equations, Solvin solving a linear equation is that whatever you do to one side of the equation, you MUST do to the other side. Lesson 1.2 Solving Multi-step Equations EXPLORATION 1 Work with a partner. That notwithstanding, your kids will be provided with a helpful guide for easy solving one step equation problems. First of all, you have to note that your goal is to isolate the variable on one side of the equal sign. K = 473.15 b. Answer: x = 4 Explanation: Given equation is 2(4x - 11) + 9 = 19. At this rate, how many more weeks will you need to save money before you can buy the new cell phone? Write and solve an equation is 2(4x - 11) + 9 = 19. At this rate, how many more weeks will you need to save money before you can buy the new cell phone? many solutions Explanation: -4(2n - 3) = 12 - 8n - 8n + 12 = 12 - 8n - 8n + 12 = 12 - 8n - 8n + 12 = 12 - 12 0 = 0 The equation is 3x - 1 = 1 - 3x - 3x + 3x = 1 + 16x = 2x = 2/6x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1 + 16x = 2x = 2/6x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1 + 16x = 2x = 2/6x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1 + 16x = 2x = 2/6x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1 + 16x = 2x = 2/6x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1 + 16x = 2x = 2/6x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1 + 16x = 2x = 2/6x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1 + 16x = 2x = 2/6x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1 + 16x = 2x = 2/6x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1 + 16x = 2x = 2/6x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1 + 16x = 2x = 2/6x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1 + 16x = 2x = 2/6x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1 + 16x = 2x = 2/6x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1 + 16x = 2x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1/3 Explanation: Given equation is 3x - 1 = 1 - 3x - 3x + 3x = 1/3 Explanation: Give nitrogen is colder than dry ice Question 30. The explorer is x meters away from the station and will reach the shipwreck in 100 seconds. One minute of video uses 60 MB of storage. -5.5 G. Explanation: Given that, The distance from the explorer to the shipwreck = $(2 \text{ m/s}) \times (100\text{s}) = 200 \text{ m}$ He is also x meters away from the diving station So, the distance between the diving station and shipwreck is $x + 20 \text{ m} \times 20 = 300 \text{ - } 200 \text{ x} = 100 \text{ Question } 19$. Answer: The outside temperature is greater than room temperature Explanation: Room temperature is considered to be 70°F. Because, when you move the quantity which is having + sign from one side to the other side of the equation, it automatically converts to - sign. WRITING Write the sentence as an equation, it automatically converts to - sign. box using Company A. 34 mi I. Which property can you use to solve each of the equations modeled by the algebra tiles? DIG DEEPER! Your fitness tracker overestimates the number of steps you take by 5%. 45% = sample volume - 5.5 0.45 = sam Solve the equation Question 7. The volume of the solution is 3 milliliters greater than 3 times the volume of the solution before the acid was added. They run four days each week, as shown in the table. 3. A = (a + b) h/2 b. OPEN-ENDED Write an equation with variables on both sides that has a single solution of -1. MODELING REAL LIFE The volume of red blood cells in a blood sample is equal to the total volume of plasma. Explanation: y = 4 is not a liter equation is x + 12 = 7 Answer: x = -5 Explanation: Given equation is x + 12 = 7 Answer: x = -5 Explanation: y = 4 is not a liter equation. Check your solution, if possible. x + 12 = 7 - 5 + 1 Question 12. Let m represent your aunt's age today. A literal equation is an equation that has two or more variables. What is a possible first step to solve the equations used in previous sections? Which equation does not belong with the other three? Question 11. MODELING REAL LIFE Write and solve an equation to find the number of miles you must drive to have the same cost for each of the car rentals. The drawing below shows equal weights on two sides of a balance scale. Your manager wants to keep 7 boxes of duct tape in stock. Question 7. -5 + x = -3 Add 5 to each side -5 + x + 5 = -3 + 5 x = 2 h. K = 5/9 (F - 32) + 273.15 Subtract 237.15 from each side K - 273.15 = 5/9 (F - 32) Multiply each side by 9 9(K - 273.15) = F - 32 Subtract 32 from each side 9/5 (K - 273.15) + 32 = F - 32 + 32 9/5 (K - 273.15) + 32 = F - 32 + 32 9/5 (K - 273.15) + 32 = F - 32 Subtract 32 from each side by 5 9(K - 273.15) = 5(F - 32)/5 9/5 (K - 273.15) = F - 32 Subtract 32 from each side 9/5 (K - 273.15) = 5(F - 32)/5 (K - 273.15) = 5(F -13 + 72 x = 85 Your team's score is 85 points Question 14. WHAT IF? The cost of the fruit cup is \$1.50. Your profit for mowing lawns this week is \$24. Answer: $x - 8\pi = \pi$ Answer: $x - 8\pi = \pi$ Add 8n to each side x - 8n + 8n = n + 8n x = 9n Putting x = 9n in x - 8n = n 9n - 8n = n 9n - 8n = n 9n - 8n = n Question 16. 5.5 Answer: I. YOU BE THE TEACHER Your friend solves the equation. Question 37. Answer: Wrong Explanation: -2(7 - y) + 4 = -4 - 14 + 2y + 4 = -4 - 10 + 2y = -4 + 10 + 2y == 4 Explanation: Given equation is 3(x - 4) = -2(4 - x) 3x - 12 = -8 + 2x 3x - 2x = -8 + 12 x = 4 Put x = 4 in 3(x - 4) = -2(4 - x) 3(4 - 4) = -2(= 3.5x - 9 4(0) - 9 = 3.5(0) - 9 = -9 Question 30. How much does one serving of pancakes cost? How much does each friend donate? Part C Using your equation from Part B, find s. Question 15. OPEN-ENDED Write a subtraction equation and a division equation from Part B, find s. Question 15. OPEN-ENDED Write a subtraction equation from Part B, find s. Question 15. OPEN-ENDED Write a subtraction equation from Part B, find s. Question 15. OPEN-ENDED Write a subtraction equation from Part B, find s. Question 15. OPEN-ENDED Write a subtraction equation from Part B, find s. Question 26. 25-30) Question 26. 25-30 Question 26 the boiling point of lead. 3x + 5 = 2x + 14 3x - 2x = 14 - 5x = 9 Question 7. Forming Expressions One incorrect simplification - Median Don Steward Expanding Single Brackets [back to top] Expanding Double Brackets [back to top] Expanding Single Brackets [back to top] Expanding Sing top] Quadratic Sequences [back to top] [back to top] Introduction to Inequalities - projectmaths.ie [back to top] Linear and Graphical Inequalities - projectmaths.ie [back to top] Factorising Quadratics Practice from @DJUdall Quadratic discs - Colmanweb Trial and Improvement See my blog post on Trial and Improvement for ideas and resourceaholic@gmail.com. 3n + 12 = 30 Answer: n = 6 Explanation: Given equation is 3n + 12 = 30 3n = 30 - 12 3n = 18 n = 18/3 n = 6 Put n = 6 in 3n + 12 = 30 3(6) + 12 = 18 + 12 = 30 Question 13. CRITICAL THINKING The degree of difficulty of a dive is 4.0. The diver's final score is 97.2. Judges award half or whole points from 0 to 10. Use algebra tiles to model and solve each equation. The formula converts a temperature from Kelvin K to Fahrenheit F. Then rate your understanding of the success
criteria in your journal. Then find the angle measures of the quadrilateral. t = 1/20 Explanation: The formula for b. Let represent your total sales that week. So, it does not have a soution Explanation: Given equation is 6(5 - 2v) = 1/20-4(3v + 1) 30 - 12v = -12v - 4 30 - 12v + 12v = -4 30 - 0 = -4 30 = -4 The equation 6(5 - 2v) = -4(3v + 1) is never true. Part B One week, you earned \$1350. A diver's final score is 77.7. What is the degree of difficulty of the dive? Write a formula for the perimeter P of the triangle. Write a formula for the height h of each figure. An undersea explorer travels away from the station at a speed of 2 meters per second. 0.4n + 0.1 = 0.5(n + 4) Answer: n = -19 Explanation: Given equation is 0.4n + 0.1 = 0.5(n + 4) 0.4n + 0.1 = 0.5(n + 4) 0.4n + 0.1 = 0.5(n + 4) 0.4(-19) + 0.1 = 0.5(-19 + 4) -7.6 + 0.1 = 0.5(-15) -7.5 = -7.5 Question 24. h = $V/\pi r^2$ b. Question 19. Answer: y = (12 - x)/3 Explanation: Given equation is (1/3)x + y = 4 Subtract each side by (1/3)x + y = (1/3)x + y = 4. (1/3) x + y = (1/3)x + y = 4. (1/3) x + y = 4. (1/3) x + y = (1/3)x + (1/3)x + y = (1/3)x + (1/3)x + y = (1/3)x + y = (1/3)x + (1/3)x +-6.3 + 1.4 n = -4.9 Putting n = -4.9 in n - 1.4 = -6.3 - 4.9 - 1.4 = -6.3 Question 20. 10x + 2 = 32 Answer: x = 3 Explanation: Given equation is 10x + 2 = 32 Answer: x = 3 Explanation: Given equation is 10x + 2 = 32 Answer: x = 72 Explanation: Given equation is -x/9 = -8 - x = -8 + 9 - x = -8 + - $-72 \text{ x} = 72 \text{ Put } \text{x} = 72 \text{ in } -x/9 = -8 -72/9 = -8 \text{ Question 3. Your cousin renews his apartment lease and pays a new monthly rent. Solve the equation for x. -0.454 Answer: -0.454 = -217/500 Explanation: Given decimal = -454/1000 = -217/500 Question 8. -2(x + 3) + 5x = -39 Answer: x = -11 Explanation: Given decimal value is -0.454 Fraction form of the decimal = -454/1000 = -217/500 Question 8. -2(x + 3) + 5x = -39 Answer: x = -11 Explanation: Given decimal value is -0.454 Fraction form of the decimal = -454/1000 = -217/500 Question 8. -2(x + 3) + 5x = -39 Answer: x = -11 Explanation: Given decimal value is -0.454 Fraction form of the decimal = -454/1000 = -217/500 Question 8. -2(x + 3) + 5x = -39 Answer: x = -11 Explanation: Given decimal value is -0.454 Fraction form of the decimal = -454/1000 = -217/500 Question 8. -2(x + 3) + 5x = -39 Answer: x = -11 Explanation: Given decimal value is -0.454 Fraction form of the decimal = -454/1000 = -217/500 Question 8. -2(x + 3) + 5x = -39 Answer: x = -11 Explanation: Given decimal value is -0.454 Fraction form of the decimal = -454/1000 = -217/500 Question 8. -2(x + 3) + 5x = -39 Answer: x = -11 Explanation: Given decimal value is -0.454 Fraction form of the decimal = -454/1000 = -217/500 Question 8. -2(x + 3) + 5x = -39 Answer: x = -11 Explanation: Given decimal value is -0.454 Fraction form of the decimal = -454/1000 = -217/500 Question 8. -2(x + 3) + 5x = -39 Answer: x = -11 Explanation: Given decimal value is -0.454 Fraction form of the decimal = -454/1000 = -217/500 Question 8. -2(x + 3) + 5x = -39 Answer: x = -11 Explanation: Given decimal value is -0.454 Fraction form of the decimal = -454/1000 = -217/500 Question 8. -2(x + 3) + 5x = -39 Answer: x = -11 Explanation: Given decimal value is -0.454 Fraction form of the decimal = -454/1000 = -217/500 Question 8. -2(x + 3) + 5x = -39 Answer: x = -11 Explanation: Given decimal value is -0.454 Fraction form of the decimal = -454/1000 = -217/500 Question 8. -2(x + 3) + 5x = -39 Answer: x = -11 Explanation:$ equation is -2(x + 3) + 5x = -39 - 2x - 6 + 5x = -39 - 3x - 6 = -39 - 3x = -33 - 3x = -33 - 2(-11 + 3) + 5(-11) = -2(-8) - 55 = 16 - 55 = 3-9 Question 4. Explanation: The sum of angles in triangle = 180° x + 2x + (x + 30) = 180 4x + 30 = 180 4x = 180 - 30 4x = 150 x = 150/4 x = 37.5° The measure of each angle is 37.5° , $2 \times 37.5 = 75^\circ$, $(37.5 + 30) = 67.5^\circ$ SOLVING AN EQUATION Solve the equation. Answer: The height of the ball pit is 3 feet. Yes Explanation: a. Given that, P = 42 feet, a = 10 ft, c = 17 ft b = P - a - c b = 42 - 10 - 17 b = 42 - 27 b = 15 feet Question 29. 6 = 4x - 2y 6 - 4x = -2y y = (4x - 6)/2 y = (2x - 3) 3. Write an equation that you can use the Addition Property of Equality to solve. Explanation: The average on Saturday = 4.7 miles per running day Sum of distance ran miles/number of weeks = 4.7 (22.5 + x)/4 = 4.7 (22.5 +feet shorter than the Millennium Force. C. x + 6 = 7 Subtract 6 from each side x + 6 - 6 = 7 - 6 x = 1 g. 20 = 5x + 10y(20 - 5x)/10 = y Question 33. Answer: The equation has infinitely many solutions Explanation: Given equation is 1/3(9x + 3) = 3x + 13x + 1 = 3x+ 1 3x - 3x = 1 - 1 0 = 0 The equation has infinitely many solutions Question 27. Think about what the term might mean and record your thoughts. F - 32 = 9/5 (K - 273.15) 5/9 (F - 32) = 8 - 273.15 5/9 (F - 32) = 8 - 273.15 5/9 (F - 32) = 9/5 (K - 273.15) 5/9 (K - 273.15) 5 number of pizza crusts made by the pizza crusts made by the pizza crusts made by the diner 52 + 180x = 52 + 180xC + 273.15 Put C = 200 K = 200 + 273.15 K = 473.15 b) Solve the formula for C K = C + 273.15 C = K - 273.15 C = 26.85° Ouestion 27. v - | 2.4 | = 5.7 v - 2.4 = 5.7 v - 2= 5.7 8.1 - 2.4 = 5.7 Question 5. 4/5(n + 1/3) = 4/5 n + 1/3 4/5n - 4/15 = 4/5n + 1/3 4/5n - 4/15 = 4/5n + 1/3 4/5n - 4/15 = 1/15 D. Answer: 7x + 3x + 10 = -2(10x + 10) has one solution. 17.) Question 8. Explanation: What is the area of each square? Big Ideas Math Answers 8th Grade Chapter 1 Equations are provided in a comprehensive manner for better understanding. The formula for the volume of a cylinder is $V = \pi r^2h$, where r is the radius of the circular base and is the height of the cylinder. Room temperature is considered to be 70°F. -8(x + 1) + 2x = -32 - 8x - 8 = -32 - 6x = -32 - 6x = -32 + 8 - 6x = -24 + 8 - 7 $= 4 \text{ in -8}(x + 1) + 2x = -32 - 8(4 + 1) + 2(4) = -8(5) + 8 = -40 + 8 = -32 \text{ Question 13. To solve } (\frac{1}{5})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$, you multiply both sides of the equation by $(\frac{5}{2})x = 14$. length = 5(3) + 1 = 15 + 1 = 16 Second squure area = $16^2 = 256$ sq units Self-Assessment for Problem Solving Solve each exercise. Use your formulas in parts (a) and (b) to find the missing dimension of each figure. DIG DEEPER! The floor of a six-foot-wide hallway is painted as shown, using equal amounts of white and black paint. Answer: $53 = p - 16^2$ 14.5 The original price was \$67.50. Which is colder, dry ice or liquid nitrogen? Answer: I should order 2 boxes of duct tapes Explanation: Number of rolls of duct tape each box can hold = 8 rols Number of boxes of duct tape the manager wants to keep in stock = 7 Let x represent the number of boxes of duct tape available Then 8x = 40 Divide each side by $8 \frac{8x}{8} = 40/8 x = 55$ boxes of duct tapes are available in stock. 3-10 Solve the equation. C
= K - 273.15 c. 4.75x = 47.50/4.75 x = 10 Each friend donate 10 = 14 3x = 42Question 33. You leave a 15% tip. 2x + 4 = -(-7x + 6) Answer: x = 2 Explanation: Given equation is 2x + 4 = -(-7x + 6) 2x + 4 = -(-7x + 6) 2(2) + (-7x + 6) 2(2) + (-7x + 6) 2(2) + (-7xExplanation: Given equation is 1/3(2b + 9) = 2/3(b + 9/2)x + 9 = 2/3(b + 9/2)x + 9/2(b +the first Ferris wheel built in 1893. Then use this information to write and solve an equation for the original battery life of the phone. Use the formula V = Bh to find the height h of the prism. Answer: h = 7k + 2 Answer: h = 7k + 2-3/4 Explanation: Given equation is 3k - 1 = 7k + 2 - 1 - 2 = 7k - 3k - 3 = 4k = -3/4 in 3k - 1 = 7k + 2 - 3/4 in 3k - 1 = 7(-3/4) + 2 - 9/4 - 1 = -21/4 + 2 (-9 - 4)/4 = (-21 + 8)/4 - 13/4 = -13/4 Question 13. You know how long a cell phone battery lasts when it is charged to 50% of its capacity. Explain. K = 400 Explanation: F = 9/5 (K - 273.15) + 2 - 9/4 - 1 = -21/4 + 2 (-9 - 4)/4 = (-21 + 8)/4 - 13/4 = -13/4 Question 13. You know how long a cell phone battery lasts when it is charged to 50% of its capacity. Explain. K = 400 Explanation: F = 9/5 (K - 273.15) + 2 - 9/4 - 1 = -21/4 + 2 (-9 - 4)/4 = (-21 + 8)/4 - 13/4 = -13/4 Question 13. You know how long a cell phone battery lasts when it is charged to 50% of its capacity. Explain. K = 400 Explanation: F = 9/5 (K - 273.15) + 2 - 9/4 - 1 = -21/4 + 2 (-9 - 4)/4 = (-21 + 8)/4 - 13/4 = -13/4 Question 13. You know how long a cell phone battery lasts when it is charged to 50% of its capacity. 32 a. 4x - 4y = 1 Answer: y = (4x - 1)/4 Explanation: Given equation is 4x - 4y = 1 Subtract 4x from both sides 4x - 4y = 1 - 4x Are 4y = 1 - 4x - 4y = 1 - 4x Are 4y = 1 - 4x - 4y = 1 - 4x From both sides 4x - 4y = 1 - 4x Are 4y = 1 - 4x - 4y = 1 Answer: The pizza parlor always makes twice the pizza crust than the dinner. MODELING REAL LIFE After a cleanup, algae covers 2 miles of a coastline. Try It Question 9. 10m = 39 Answer: n = -5 Explanation: Given equation is 4 = -0.8n Assuming they meet their goal on Saturday in Week Nine, what is the average number of miles per running day over the 4 weeks in the table? Answer: The grocer prepares 110 samples Explanation: Let x be the total number of samples the grocer prepares Total number of samples a grocer given out = $50(1/2)x - 5 = 50(1/2)x = 55 \times 2 \times 2 \times 10$ So, the grocer prepares 110 samples. 9(8d - 5) + 13 = 12d - 2 Answer: d = 1/2 Explanation: Given equation is 9(8d - 5) + 13 = 12d - 272d - 45 + 13 = 12d - 272d - 45 + 13 = 12d - 272d - 12d - 29(4 - 5) + 13 = 12d - 29(4 -3/7y = 13 - 136/7y = 0 C. Question 12. -0.75 C. x 2(36 + 13x) = 36x 72 + 26x = 36x 72 = 36x - 26x 10x = 72 x = 72/10 x = 7.2 Question 10. Explanation: a, b) Your friend will pass you before the end of the trail. In addition to this, our 6th grade linear equations worksheet with answers pdf consist of beautifully represented data values with fixed equations useful in solving linear relationships and real life situations. 7/8(2t + 1/8) = 7/4t 7t/4 + 7/64 = 7t/4 Question 4. ft Surface area = $2\pi rh 245 = 2 \times 3.14 \times 13 \times h 245 = 81.64h h = 245/81.64h h = 245/8$ Explanation: Given that, R - C = P - C = P - R C = R - P Question 23. Your friend bikes at 8 miles per hour. Calculating the Loss Percent - Definition, Formulas, Examples | How to Calculate the Percentage of Loss Worksheet on Solution of a Linear Inequalities in One Variable Worksheet on Solution of a Linear Inequalities in One Variable Worksheet on Solution of a Linear Inequalities in One Variable | Solving Linear Inequalities in One Variable | Solving Linear Inequalities in One Variable Worksheet on Solution of a Linear Inequalities in One Variable Worksheet on Solution of a Linear Inequalities in One Variable Worksheet on Solution of a Linear Inequalities in One Variable | Solving Linear Inequalities | Solving Line Inequation in One Variable - Definition, Facts, Rules, Examples | How do you Solve Linear Inequalities with One Variable? The tracker indicates that you took 7350 steps today. MODELING REAL LIFE You clean a community park for 6.5 hours. Explanation: Let x as the number of months My satellite cost for 3 televisions is 13.32x * 3 = 39.96x My friends cable cost = 75 + 39.96x - 39Question 41. WRITE GUIDELINES Work with a partner. A mug weighs one-half as much as a trophy. -3x = 2x + 20 Answer: x = -4 Explanation: Given equation is -3x = 2x + 20 -3(-4) = 2(-4) + 20 -3x = -20 each side of the pasture? Answer: After 15 miles both company charge the same amount. -7 = x + 4 Subtract 4 from each side -7 - 4 = x + 4 - 4 -11 = x f. Explanation: Given equation is 1/2 (6t -4) = 3t -2 3t -2 = 3t - 2 The equation is 1/2 (6t -4) = 3t -2 3t -2 = 3t - 2 The equation is 1/2 (6t -4) = 3t -2 3t -2 = 3t - 2 The equation is 1/2 (6t -4) = 3t -2 is always true. Answer: The given triangle is not equilateral triangle Explanation: Equilateral triangle have all sides of equal length 2x + 5.2 = 3x + 1.2 + 5.2 = 3x + 1.2 = -9n + 22 - n Answer: n = 2 Explanation: Given equation is 2 = -9n + 22 - n = -4x = 4 and x + 1.2 = 2x + 6.2 + 3x = -1.2 + 2 = -10n + 22 = -10n + 20= -10n n = -20/-10 n = 2 Put n = 2 in 2 = -9n + 22 - n 2 = -9(2) + 22 - 2 = -18 + 22 - 2 = -20 + 22 Question 15. Answer: The height of the prism is 12 inches. Answer: 5(2x - 3) = 10x - 15 + 150 = 0 For any values of x, the equation satisfies. Choose and complete a graphic organizer to help you study the concept. So, $x^\circ + 50^\circ = 180^\circ x^\circ = 180^\circ x^\circ = 130^\circ$ Question 47. YOU BE THE TEACHER Your friend pass you before the end of the trail? A mug weighs three times as much as a trophy. $32 = 4800 \ 1600 \ w = 4800/1600 \ w = 3$ The weight of each ant is 3 mg Question 51. I = Prt Divide each side by Pr I/Pr = Prt/Pr t = I/Pr b. Answer: The original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Explanation: Volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Explanation: Volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Explanation: Volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the original volume of the solution is 29 milliliters Let us take x as the milliliters Question 26. 6y - 1.5x = 8 Answer: y = (8 - 1.5x)/6 Explanation: Given equation is 6y - 1.5x = 8 Add 1.5x to each side by 6 6y/6 = (8 - 1.5x)/6 Question 19. 1.1 I. PROBLEM SOLVING One serving of oatmeal provides 16% of the fiber you need daily. Explanation: A 455foot fence encloses a pasture x + 3x + 1.5x + 180 = 4555.5x + 180 = 4555.5x = 455 - 1805.5x = 275/5.5x = 275Height $h = V/\pi r^2$ Volume = 6π cubic inches radius = 1.25 inch $h = V/\pi r^2 = 6\pi / \pi (1.25)^2 = 6/1.5625 = 3.84$ The height h = 3.84 in Equations Practice Test Practice Test Solve the equation. P = a + b + c b. m - 10 = 39 H. WHICH ONE DOESN'T BELONG? F = 9/5 (K - 273.15) + 32 b. The highest and the lowest scores are dropped. The radius of the first Ferris wheel is 125 feet c. What are the side lengths of the square? 6(4 - z) = 2z Answer: z = 3 Explanation: Given equation is 6(4 - z) = 2z 6(4 - 3) = 2(3) 6(1) = 6 Question 4. Drawing Graph of y = mx + c Using Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and
y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercept | How do you Graph with Slope and y-intercep Intercept? 3 = -5/6 - 1/12 - 1/4. What was your cousin's original monthly rent when his new rent is 5% greater? -14x + 28 + 6x = -44 - 8x + 28 = -44 - 28 + 6x = -44 - 28neighbor subscribes to the cable provider the same month you subscribe to the satellite provider. DIG DEEPER! A bird flies at a top speed of 20,000 meters per hour. Simplify the equation is 3.8n - 13 = 1.4n + 5 Answer: n = 7.5 Explanation: Given equation is 3.8n - 13 = 1.4n + 53.8n - 1.4n = 5 + 13 2.4n = 18 n = 18/2.4 n = 7.5 Put n = 7.525. 2y - 4x = 6 2y = 6 + 4x y = 3 + 2x Self-Assessment for Problem Solving Solve each exercise. x + 5 = -2 Subtract 5 from each side x + 5 - 5 = -2 - 5x = -7 e. Question 18. Big Ideas Math Book 8th Grade Answer Key Chapter 1 Equations The list of topics in Equations (25. 2y - 4x = 6 2y = 6 + 4x y = 3 + 2x Self-Assessment for Problem Solving Solve each exercise. x + 5 = -2 - 5x = -7 e. Question 18. Big Ideas Math Book 8th Grade Answer Key Chapter 1 Equations The list of topics in Equations (25. 2y - 4x = 6 2y = 6 + 4x y = 3 + 2x Self-Assessment for Problem Solving Solve each exercise. x + 5 = -2 - 5x = -7 e. $= 439/(2 \times 3.14) = 439/(6.28 \text{ r} = 70 \text{ feet The radius of the Navy Pier Ferris Wheel is 70 feet b. Answer: Angles of a triangle are 20°, 24°, 136°. In doing this, my +3 - 3 gives 0, given that addition is the opposite of subtraction. D. <math>3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation: Given equation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation. D. $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation. D. $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ Explanation is $3\pi d = 12\pi$ Answer: $d = 4\pi$ in $3\pi d = 12\pi$ $3\pi x 4\pi = 12\pi$ Question 31. What is the height of the Mantis? The next important thing to remember here is that when you move numbers or variables from one side to the other, they change signs, i.e. to move something that is subtracted from the other side of the equation, you should add. A formula for the perimeter of a rectangle P = 2l + 2w. b = 15 feet Explanation: Given equation is $-t/4 = -3\pi \cdot t = -12\pi t = 12\pi Put t = 12\pi Put t = 12\pi Put t = -3\pi \cdot t = -3\pi \cdot$ point of lead is 1741.46°C Explanation: The boiling point of lead is x 41/200 x = 357°C The boiling point of lead is 1741.46°C Question 8. Answer: Correct Explanation: 3(y - 1) + 8 = 11 3y + 5 = 11 3ythis week? How much does the object weigh? WRITING AND SOLVING AN EQUATION The squares are identical. CRITICAL THINKING A neighbor pays you and two friends \$90 to paint her garage. a = 6 cm, b = 8 cm, h = ? Solve the formula F = \(\frac{9}{5}\)C + 32 for C. Quick links: Forming Expressions | Function Machines | Simplifying Expressions | Expanding Single Brackets | Expanding Double Brackets | Expanding Cubics | Factorising (Single Brackets) | Rearranging Formulae | Substitution | Linear Equations | Inequalities | Linear Graphs | Quadratics | Trial & Improvement Iteration | Simultaneous Equations | Algebraic Fractions | Graphing Functions | Simultaneous Equation of Circle & Tangent | Graphing Functions | Graphing Functions | Simultaneous Equation of Circle & Tangent | Graphing Functions | Simultaneous Equation of Circle & Tangent | Graphing Functions | Simultaneous Equation of Circle & Tangent | Graphing Functions | Graphing Functins | Graphing Functions | Graphi Explanation: As shown in the figure 90 = 2x + 12 + 32 90 = 2x + 44 90 - 44 = 2x 46 = 2x 46/2 = x 23 = x Question 11. Explanation: Let x be the actual number of steps and 5% of its equal to 7350 Then, the equation will be x + 0.05x = 7350 1.05x = 7350 Divide each side by $1.05 \ 1.05 \ x/1.05 = 7350/1.05 \ x = 7000$ So, your actual number of steps is 7000. First, find the battery life of the one-year-old cell phone. 5 = -2n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Explanation: Given equation is 10 = 3n + 20 - n Answer: n = -5/2 Ex 20 10 - 20 = 2n - 10 = 2n n = -10/2 n = -5 put n = -5the number of packages. 21 mi H. The temperature outside is currently 23°C. Explanation: z = 4x + 9y is a literal equation because it has 3 variables x, y, and z. Question 32. Solve the formula for t, when r is the simple interest per year. Justify your answer. Your friend bikes at 17 miles per hour. Convert 300 Kelvin to degrees Celsius. Find your total earnings. Alex and Enid are training for a half marathon. Answer: Height = 6mm Explanation: A = ½ h 36 = 6h h = 36/6 h = 6 mm Question 9. Cost Price, Selling Price and Rates of Profit and Loss - Definition, Formula, Examples Profit and Loss - Definition, Formula, Examples Profit and Loss - Definition, Formula, Examples | How to Calculate Profit and Loss? Question 20. If possible, find the value of y so that the value of the surface area (in square inches) is equal to the value of the va equation c = ax - bx, where a, b, and c are whole numbers. Explain the meaning of each property. Answer: Volume is 24 cubic in Explanation: Given that, Area of pentagon = 18 in² Height h = 4 in The volume of the pentagonal pyramid = 1/3 x base area x height = MISSING MEASURES IN FIGURES IN FIGURES If possible, find the value of the surface area (in square inches) is equal to the value of the 5w - 10 = -3w - 10 5w + 3w = -10 + 10 8w = 0 w = 0 Put w = 0 in 5(w - 2) = -2(1.5(0) + 5) 5(-2) =
-2(1.5(0) + 5) 5(-2) = -2(1.5(0) + 5) 5(-2) = -2(1.5(0) + 5) 5(-2) = -2(1.5(0) + 5) 5(-2) = -2(1.5(0) + 5) 5(-2) = -2(1.5(0) + 5) 5(-2) = -2(1.5(0) + 5) 5(-2) = -2(1.5(0) + 5) 5(-2) = -2(1.5(0)diameter of the purple circle is 3x Diameter = double the radius 3x = 2r r = 3x/2 Two circles are identical x + 2 = 3x/2 = 2 x = 4 The radius of purple circle is 3(4)/2 = 6 The area of each circle = $\pi^2 = \pi$ (5)² = 25 π The area of second circle = $\pi(6)^2 = 36\pi$ Self-Assessment for Concepts & Skills Solve each exercise. As a result, our activities are enthralling enough to help kids easily recognize variables and other elements by themselves. Discount and Discount Percentage? 7x + 3x + 10 = -2(-5x - 5) has infinite solutions 7x + 3x + 10 = -2(-5x + 1) has no solution. d = rt Answer: t = d/r Explanation: Given that, d = rt t = d/r Question 21. Explanation: x/420 = 6/7 x = 360 x 6 x = 360 The amount of interest = new balance - original balance = 420 - 360 = 60 So, you earned \$60 as interest. 5(4 + t) = 5t + 20 Answer: The equation has infinitely many solutions Explanation: Given equation is $5(4 + t) = 5t + 20\ 20 + 5t = 5t$ The equation has infinitely many solutions Find the unit rate. Use the new formula to find the width w (in meters) of a rectangle with a perimeter of 2 meters and a length of 40 centimeters. Explanation: A. -3(x + 2) + 5x = -9 Answer: x = -3/2 Explanation: Given equation is -3(x + 2) + 5x = -9 Answer: x = -3/2 Explanation: Given equation is -3(x + 2) + 5x = -9 Answer: x = -3/2 Explanation: Given equation is -3(x + 2) + 5x = -9 Answer: x = -3/2 Explanation: A. -3(x + 2) + 5x = -9 Answer: x = -3/2 Explanation: Given equation is -3(x + 2) + 5x = -9 Answer: x = -3/2 Explanation: Given equation is -3(x + 2) + 5x = -9 Answer: x = -3/2 Explanation: Given equation is -3(x + 2) + 5x = -9 Answer: x = -3/2 Explanation: Given equation is -3(x + 2) + 5x = -9 Answer: x = -3/2 Explanation: Given equation is -3(x + 2) + 5x = -9 Answer: x = -3/2 Explanation: Given equation is -3(x + 2) + 5x = -9 Answer: x = -3/2 Explanation: x-9 - 3x - 6 + 5x = -9 2x - 6 = -9 2x = -9 + 6 2x = -3 x = -3/2 Put x = -3/2 = (3200 - 2(40))/2 = (3200 - 80)/2 = 3120/2 = 1560 cm = 15.6 m Width is 1560 cm Question 12. Question (\div) are inverse to each other, Answer: The weight of the cherry = 4800 mg Number of Ants that carry the cherry = 32 Ants of a particular species can carry 50 times their body weight. Let w is the weight of each ant w. How many watches are made when the cost is \$385? In part(a), did you rewrite a formula to find the number of hours the bird flew, or did you use another approach? Explanation: The circumference C of a circle is 24π inches $C = 2\pi r^2 4\pi = 2\pi r^2 4\pi$ Solving Multi-Step Equations (pp. liquid nitrogen is colder than dry ice Explanation: K = 5/9 (F - 32) + 273.15 a. $V = \pi r^2 h/\pi r^2 V/\pi r^2 = h$ b. The perimeter of the triangle. What are the side lengths of the base? It takes 32 ants of that species to carry the cherry shown. -3n - 4n -17 = 25 Answer: n = -6 Explanation: Given equation is -3n - 4n - 17 = 25 -7n = 25 + 17 -7n = 42 - 17 = 25 -7n - 17Explanation: Given equation is 8(3 - z) = 4z 24 - 8z = 4z + 8z 24 = 4z + 8z 24 = 4z + 8z 24 = 12z z = 24/2 z = 2 Put z = 2 in 8(3 - z) = 4z (3 - 2) = 4(2) 8(1) = 8 Question 16. The bird flies 30,000 meters without stopping. Answer: The average number of miles per running day over the 4 weeks in the table is 2.875 miles per day. K = 5/9 (F - 32) + 273.15 Put F = 240°F K = 5/9 (240 - 32) + 273.15 = 5/9(208) + 273.15 = 5/9(208) + 273.15 = 115.5 + 273.15 = 388.7 Rounding 388 to nearest 100 So, K = 400 Question 34. Answer: z = -9 Explanation: Given equation is -2z/3 = 6 K 3 - 2z = 18 Divide each side by 3 - 2z/3 = 6 Question 34. Answer: z = -9 Explanation: Given equation is -2z/3 = 6 Question 34. Answer: z = -9 Explanation: Given equation is -2z/3 = 6 Question 34. Answer: z = -9 Explanation: Given equation is -2z/3 = 6 Question 6. Use your models in Exercise 1 to summarize the algebraic steps that you can use to solve an equation. Answer: $h = (S - 2\pi r^2)/2\pi Explanation$: Given that, Surface area of cylinder: $S = 2\pi r^2 + 2\pi r^2$ from each side S - $2\pi r^2/2\pi r^2$ from each side S - $2\pi r^2/2\pi$ $2\pi r^2 = 2\pi r^2 + 2\pi r^2 - 2\pi r^2 S - 2\pi r^2 S - 2\pi r^2 S - 2\pi r^2 = 2\pi r^2 S - 2\pi r^2 = 2\pi r^2 S - 2\pi r^2 S$ miles both company charge the same amount. y = 4 Answer: y = 4 is not a liter equation. The total length of the hallway = 9x + 4 b. 8 = 16 miles Therefore, he will pass you after the end of the trial because 16 > 10. 4.2x - 1.4y = 2.1 Answer: y = 3(2x - 1)/2 Explanation: Given equation is 4.2x - 1.4y = 2.1 Subtract 4.2x from each side 4.2x - 1.4y = 2.1 Answer: y = 3(2x - 1)/2 Explanation: Given equation is 4.2x - 1.4y = 2.1 Subtract 4.2x from each side 4.2x - 1.4y = 2.1 Answer: y = 3(2x - 1)/2 Explanation: Given equation is 4.2x - 1.4y = 2.1 Subtract 4.2x + 1.4y = 2.1 Answer: y = 3(2x - 1)/2 Explanation: Given equation is 4.2x - 1.4y = 2.1 Subtract 4.2x + 1.4y = 2.1 Answer: y = 3(2x - 1)/2 Explanation: Given equation is 4.2x - 1.4y = 2.1 Subtract 4.2x + 1.4y = 2.1 Subtract 4.2x + 1.4y = 2.1 Answer: y = 3(2x - 1)/2 Explanation: Given equation is 4.2x - 1.4y = 2.1 Subtract 4.2x + 1.4y = 2.1 Subtract 4.2x += 2.1 - 4.2x - 1.4y = 2.1 - 4.2x Divide each side by -1.4y - 1.4y - 1.4y - 1.4y - 1.4y - 1.4y - 1.4y = 3(2x - 1)/1.4 = 2.1(2x - 1)/1.456 Total number of students = boys + girls = 56 + 64 = 120 Question 52. Use the formula C = $2\pi r$ to find the radius r of the circle. Exchange equations with another pair and find the solution: x - 2 = 4x = 4 + 2x = 6x - 3 = 9x = 9 + 3x = 12x - 5 = 1x = 1 + 5x = 6x - 6 = 0x = 6 So, x - 3 = 9 does not belong with the other three. Explanation: Let x is the total amount of fiber you needed daily. 6m2 + 7n Answer: The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 6, 7 Explanation: Given that, $6m^2 + 7n$ The constant = 0 Terms = m^2 , n Coefficients = 1.875 = y Question 13. You have already saved \$35 for a new cell phone. You earn \$42.25. -4 = x - 4 Add 4 to each side -4 + 4 = x - 4 + 40 = x Question 2. Answer: B. Answer: B. Answer: d = 2/3 Explanation: Given equation is 5/6 = 1/6 + d = 2/3 Explanation: Given equation is 5/6 = 1/6+ 2/3 = (1 + 4)/6 = 5/6 Question 18. Question 30. Answer: p = -26 Explanation: Given equation
is 2(3 - p) - 17 = 41 - 2p = 41 + 11 - 2p = 52 p = -26 Put p = -26 -26 in 2(3 - p) - 17 = 41 2(3 - (-26)) - 17 = 2(3 + 26) - 17 = 2(29) - 17 = 58 - 17 = 41 Question 14. 400 + 0.05s = 1350 c. You are 3 miles behind your friend, who is biking at a speed of 12 miles per hour. If each box holds 8 rolls of duct tape, how many boxes should you order? g - 16 = 8 Answer: g = 24 Explanation: Given equation is g - 16 = 8 Add

16 to each side g - 16 + 16 = 8 + 16 g = 24 Putting g = 24 in g - 16 = 8 24 - 16 = 8 24 - 16 = 8 Question 13. Answer: The number of miles I should drive to have the same cost for each of the car rentals is 40 miles Explanation: Let x represent the number of miles 20 + 0.5x = 30 + 0.25x + 0.5x = 40 The number of miles I should drive to have the same cost for each of the car rentals is 40 miles Explanation: Let x represent the number of miles 20 + 0.5x = 30 + 0.25x + 0.5x = 40 The number of miles I should drive to have the same cost for each of the car rentals is 40 miles Explanation: Let x represent the number of miles 20 + 0.5x = 30 + 0.25x + 0.5x = 40 The number of miles 20 + 0.5x = 30 + 0.25x + 0.5x = 40 The number of miles 20 + 0.5x = 30 + 0.25x + 0.5x = 40 The number of miles 20 + 0.5x = 30 + 0.25x + 0.5x = 40 The number of miles 20 + 0.5x = 30 + 0.25x + 0.5x = 40 The number of miles 20 + 0.5x = 30 + 0.25x + 0.5x = 40 The number of miles 20 + 0.5x = 30 + 0.25x + 0.5x = 40 The number of miles 20 + 0.5x = 30 + 0.25x + 0.5x = 40 The number of miles 20 + 0.5x = 30 + 0.25x + 0.5x = 40 The number of miles 20 + 0.5x = 30 + 0.25x + 0.5x = 40 The number of miles 20 + 0.5x = 30 + 0.25x + 0.5x = 40 The number of miles 20 + 0.5x = 30 + 0.25x + 0.5x = 40 The number of miles 20 + 0.5x = 40I should drive to have the same cost for each of the car rentals is 40 miles SOLVING AN EQUATION Solve the equations (pp. 78° C. Answer: Your actual number of steps is 7000. So, never my neighbor's total cost, my total cost, my total cost will be same. C = 26.85° Explanation: Given formula is K = C + 273.15 a) Convert 200 degrees Celsius to Kelvin. What are Linear Equations - Definition, Formula, Types, Examples | How do you Solve Linear Equations? 9 pounds per 6 crates Unit rate = 9/6 = 1.5 Concepts, Skills, & Problem Solving REWRITING FORMULA Solve the formula for the height of the figure. Answer: You work for 8 hours this week. $6(38 + c) = 354\ 38 + c = 59\ c = 59\ - 38\ c = 21$ The teacher spends \$21 on each microphone Solving Multi-step Equations are not equivalent. Explanation: The perimeter of the square is equal to the perimeter of the triangle 4(3x + 3) = 2x + 4 + 7x - 2 +-x - x/4 - 1/2 + 5 = -x - 1/2 + 5 = -x + x/4 (-1 + 10)/2 = (-4x + x)/4 9/2 = -3x/4 9/2 x (-4/3) = x x = -6 Put x = -6 in -1/4 (x + 2) + 5 = -(-6) -1/4(-4) + 5 = 6 1 + 5 = 6 YOU BE THE TEACHER Your friend solves the equation. Worksheet on Successive Discounts | Printable Math Successive Discount Worksheet with Solutions PDF Worksheet on the Application of Overhead Expenses | Overhead Applications Problems Worksheet with Answers Answer: The teacher spends on six costumes and microphone = \$354 Each cast member receives a costume that costs \$38 and a microphone that costs \$c. 138' Answer: A. Answer: $x = 120^{\circ}$ Explanation: The sum of the angle measures of a quadrilateral is 360° $x^{\circ} + x^{\circ} = 360^{\circ} 2x^{\circ} + x^{\circ} =$ v/4 = -7 -28/4 = -7 Question 5. 1.2 Lesson Try It Solve the equation. Check your solution. Over a savings account and \$50 in a checking account. OPEN-ENDED Write an equation with variables on both sides that has no solution. Who wins the game? -4.75 B. Graphic Organizers You can use an Information Frame to help organize and remember a concept. Answer: Perimeter = 344/3 Explanation: Perimeter = 344/3 Perimeter = 3Answer: $4 \times 3 + 10^2 = 112$ Explanation: Given expression is $4 \times 3 + 10^2 = 4 \times 3 + 10 \times 10 = 12 + 100 = 112$ Identify the terms, coefficients, and constants in the expression. Who is correct? Answer: x = 0.2 Explanation: Given expression. Who is correct? Answer: x = 0.2 Explanation: Given expression. Who is correct? Answer: x = 0.2 Explanation: Given expression. Who is correct? Answer: x = 0.2 Explanation: Given expression. Who is correct? Answer: x = 0.2 Explanation: Given expression. When the expression is $4 \times 3 + 10^2 = 4 \times 3 + 10 \times 10 = 12 + 100 = 112$. equation is -7.8x = -1.56 Divide each side by -7.8 - 7.8x/-7.8 = -1.56/-7.8 x = 0.2 Putting x = 0.2 in -7.8x = -1.56/-7.8 x = 0.2 Putting x = 0.2 in -7.8x = -1.56/-7.8 x = 0.2 Putting x = 0.2 in -7.8x = -1.56/-7.8 x = 0.2 Putting x = 0.2 in -7.8x = -1.56/-7.8 x = 0.2 Putting x = 0.2 in -7.8x = -1.56/-7.8 x = 0.2 Putting x = 0.2 in -7.8x = -1.56/-7.8 x = 0.2 Putting x = 0.2 in -7.8x = -1.56/-7.8 x = 0.2 Putting x = 0.2 in -7.8x = -1.56/-7.8 x = 0.2 Putting x = 0.2 in -7.8x = -1.56/-7.8 x = 0.2 Putting x =Explanation: The solution is greater than -15 Here both sides of the equation have - sign. Answer: Volume = 27 cubic cm Explanation: Length = 3 cm, width x height Volume V = 3 x 2 x 4.5 = 27 cubic cm Explanation: Given equation is 6 = 4x + 9y Answer: y = (6 - 4x)/9 Explanation: Given equation is 6 = 4x+ 9y Subtract 4x from each side 6 - 4x = 9y - 4x 6 - 4x = 9y Divide each side by 9 (6 - 4x)/9 = 9y/9 y = (6 - 4x)/9 Question 16. x = -7 e. MODELING REAL LIFE A cable television provider others free installation and \$39.96 per month for a basic entertainment package. A satellite television provider others free installation and charges \$13.32 per month for service for each television. Just tap on the respective link you wish to prepare and learn the fundamentals included within it easily. So, the pizza parlor always makes twice the pizza crust than the dinner. 3(x - 1) = -3 Answer: The equation has only one solution Explanation: Given equation is 3(x - 1) = -3 Answer: The equation has only one solution explanation. Question 12. t = d/r Explanation: Given that, d = rt Divide both sides by r d/r = t/r d/r = t Question 6. Solve all the questions from Big Ideas Math Book 8th Grade Chapter 1 Equations Answer Key and become an expert in equations from Big Ideas Math Book 8th Grade Chapter 1 Equations 4. Solve all the questions from Big Ideas Math Book 8th Grade Chapter 1 Equations 4. Solve and check. Answer Key and become an expert in equations 4. Solve all the questions from Big Ideas Math Book 8th Grade Chapter 1 Equations 4. Solve all the questions 4. Solve = 4 Question 10. How many students are in the grade? 3.82 Answer: 3.82 = 191/50 Explanation: Given decimal value is 3.82 Fraction form of the decimal = 382/100 = 191/50 Question 7. 1.06(12.95 + x) = 31.27 Answer: x = 16.55 Explanation: Given equation is 1.06(12.95 + x) = 31.27 12.95 + x = 31.27/1.06 12.95 + x = 29.5 + x = 29.5 + 12.95 x = 29.5 - 12.9516.55 Put x = 16.55 in 1.06(12.95 + x) = 31.27 1.06(12.95 + 16.55) = 1.06(29.5) = 31.27 Question 16. The height h = 3.84 in Explanation: The formula to find b when a is 10 feet and c is 17 feet. Which of the following result in values a, b and c so that the original equation has no solution? z + 1 = z + 6 Answer: The equation has no solution 1 = 6 SOLVING AN EQUATION Solve the equation has no solution? carry 50 times their body weight. This can be modeled by the equation 2m + 3 = 39, where m represents the number of miles driven. b + 2 = -5 Subtract 2 from each side b + 2 - 2 = -5 - 2 b = -7 Putting b = -7 in b + 2 = -5 - 7 + 2 = -5 Question 2. Explanation: The average attendance = 3000 per show $(2580 + 2920 + x)/3 = 3000\ 5500 + x = 3000\ x 3\ 5500 + x = 9000\ x = 3500\ 3500\ eople$ must attend the third show so that the average attendance per show is $3000\ x = 3500\ x = 3500$ 8.50x + 1.10 + 8.50x + 1.10 = 2.50x + 2.25 + 1.10 = 2.50x + 2.25 = 1.10 + 2.25 = 1.10 + 2.25 = -4x + 9.5 - 9 = -4x + 2x - 4 = -2x = -4x + 9.5 - 9 = -4x + 2.25 = -4x + 9.5 - 9 = -4x + 2.25 = -4x + 9.5 - 9 = -4x + 2.25 = -4x + 9.5 - 9 = -4x + 2.25 = -4x + 9.5 - 9 = -4x + 2.25 = -4x + 9.5 - 9 = -4x + 2.25 = -4x + 9.5 - 9 = -4x + 2.25 = -4x + 9.5 - 9 = -4x + 9.5 - 9= 2 One side = 5 - 2(2) = 5 - 4 = 1 Perimeter = 1 + 1 + 1 = 3 Question 40. PROBLEM SOLVING How many people must attend the third show so that the average attendance per show is 3000? Use the new formula to find the height of the cylinder. CRITICAL THINKING How can you solve 3(x + 2) = 9 without distributing the 3? 11.) Question 9. Answer: 2(14x + 33) = 33x, x = 66/5 Explanation: Given that, length l = x in, width w = 11 in, height h = 3 in Surface area of rectangular prism = Volume of the ball pit? A. Answer: n = -12 Explanation: Given equation is -2/3 n = 8 multiply each side by 3 - 2/3 n = -12 Explanation: Given that, length l = x in, width w = 11 in, height h = 3 in Surface area of rectangular prism = Volume of the ball pit? A. Answer: n = -12 Explanation: Given equation is -2/3 n = 8 multiply each side by 3 - 2/3 n = -12 Explanation: Given that, length l = x in, width w = 11 in, height h = 3 in Surface area of rectangular prism = Volume of the ball pit? A. Answer: n = -12 Explanation: Given equation is -2/3 n = -12 Explanation: Given that, length l = x in -12 Explanation: Given that, length l = x in -12 Explanation: Given that, length l = x in -12 Explanation: Given that, length l = x in -12 Explanation: Given that, length l = x in -12 Explanation: Given that -12 Explanating -12 Explanation: Given that -12 Explanating $3 = 8 \times 3 - 2n = 24$ Divide each side by -2 - 2n/-2 = 24/-2 n = -12 Putting n = -12 in -2/3 n = 8 - 2/3 (-12) = $-2 \times -4 = 8$ Question 15. Which of the following equations has exactly one solution? Explain how to solve your equations has exactly one solution? Explain how to solve your
equations has exactly one solution? Explanation: Given equation is 5x + 2x + 4 = 18 7x = 14 x = 14/7 x = 2 in 5x + 2x + 4 = 18 7x = 14 x = 14/7 x = 14/7should order 2 boxes of duct tapes Question 22. Same goes for multiplication and division. the difference of a number t and 9 t - 9 Concepts, Skills, & Problem Solving USING PROPERTIES OF EQUALITY Which property of equality can you use to solve the equation modeled by the algebratiles? Solve the formula for C. -7x = x + 24 Answer: x = -3 Explanation: Given equation is -7x = x + 24 -7(-3) = -3 + 24 = 21 Question 15. Answer: The amount I earned for cleaning a community park = \$42.25 Time = 6.5 hours Let the amount I earned per hour is x = 42.25 Divide each side by 6.5 = 42.25/6.5 = $x 34 = 136^\circ$, $(34 - 10) = 24^\circ$, 20 Question 10. x + 5 = -2 e. a. GEOMETRY What is the length of the missing base of the trapezoid? How many minutes of the video should be deleted so that the hard drive is 75% full? F = 9/5 (K - 273.15) + 32 F =Explanation: a) Friends bowling score = 65 My score is 57 b) Friend's score is 57 b Friend'score is 57 b Fr are called supplementary when their measures add up to 180 degrees. x = 0 Explanation: a. Answer: Total number of girls (g) have retaken their pictures which is 16. 1.15(1.5 + 2b) = 11.5 1.5 + 2b = 11.5/1.15 1.5 + 2b = 10 2b = 10 - 1.5 2b = 8.5 b = 8.5 / 2 b = 8.5 / 2 b = 4.25 The cost of one serving of pancake is \$4.25 Question 29. You divide the money three ways in the ratio 2 : 3 : 5. Answer: 2(36 + 13x) = 36x, x = 7.2 Explanation: Given that, length l = 9 in, width w = 4 in, height h = x in The surface area of rectangular prism 2(wl + hl + 1) = 36x, x = 7.2 Explanation: Given that, length l = 9 in, width w = 4 in, height h = x in The surface area of rectangular prism 2(wl + hl + 1) = 36x. hw = whl 2(36 + 9x + 4x) = 9. GEOMETRY The volume V of the prism is 1122 cubic inches. Answer: Write the given equation as it is. Question 24. Round your answer to the nearest hundredth. B = 3(V/h) Multiply each side by h Bh = 3(V/h) x h Bh = 3V Divide each side by 3 Bh/3 = 3V/3 V = Bh/3 Question 25. What is the greatest angle measure in the triangle? F. Find the original battery life of the phone. Which value of y makes the equation 3y + 8 = 7y + 11 true? Question 43. Use an equation to justify your answer. Explanation: The drawing shows 3mugs + 1trophy = 2trophy 3mugs = 2trophy - 1 trophy 3mugs = 1trophy Mug= 1/3 trophy Final Words: Hope you are all satisfied with the information given in this article. Five of your friends each donate the same amount. 1.3 Lesson Try It Solve the equation. Solve 0.5 = 0.4y - 0.25 for y. Kid's early learning about unknowns and variables will greatly reinforce their algebraic thinking and understanding. MODELING REAL LIFE The formula K = C + 273.15 converts temperatures from degrees Celsius to Kelvin K. Which equation can you use to find m? -4.3g = 25.8 divide each side by -4.3 -4.3g/-4.3 = -6 putting g = -6 in -4.3g = 25.8 -4.3(-6) = 25.8 Question 27. Given that, I = \$75, P = \$500, r = 5\% t = ? Answer: They have to run 13.1 miles on Saturday in Week Nine. Answer: A. A mug weighs one-third as much as a trophy. Explain your method. In fact, with just one step, you can successfully calculate the value of a variable by doing the opposite operation. We know that the perimeter is nothing but the sum of the outer edges of the triangle. New circumference = 56% of old circumference = $2\pi(old) r(old) = 785/2\pi = 125$ feet The radius of the first Ferris wheel is 125 feet c. The tennis balls come in packs of 3. Answer: The height of Mantis is 145 feet. -n - 6n + 4 = 53 Answer: n = -7 Explanation: Given equation is -n - 6n + 4 = 53 - 7n = 53 - 4 - 7n = 49 n = -49/7 n = -7 in -n - 6n + 4 = 53 - (-7) - 6(-7) + 4 = 7 + 42 + 4 = 53 Question 11. Answer: The time is 7:35 Explanation: A rocket is scheduled to launch at 11:20 AM from a command center in 3.75 hours. The sum of the angle measures of a triangle is 180°. -5 + x = -3 h. Answer: $x = 57.33^{\circ}$, 114.66°, 65.33° Explanation: The sum of the angle measures of a triangle is 180°. -5 + x = -3 h. Answer: $x = 57.33^{\circ}$, 114.66°, 65.33° Explanation: The sum of the angle measures of a triangle is 180°. -5 + x = -3 h. Answer: $x = 57.33^{\circ}$, 114.66°, 65.33° Explanation: The sum of the angle measures of a triangle is 180°. solutions Explanation: Given equation is 6x + 6 = 6(x + 1) The equation has infinitely many solutions 6x + 6 = 6x + 6 Question 13. The boiling point of a liquid is the temperature at which the liquid becomes a gas. Answer: The areas of squares are 256 sq units, 2 where is the cost of the materials (in dollars). What is the value of x? The total length of the hallway = The length of black paints + lngth of black paints = 5(x) + 4(x + 1) = 5x + 4x + 4 = 9x + 4 Question 49. Answer: G. A rectangle with perimeter P and width w A rectangular prism with surface area S, width w, and height h. MODELING REAL LIFE After the addition of an acid, a solution has a volume of 90 milliliters. x = -6 b. Write a formula for the length l of each figure. 5m - 1 = 4m + 5 5m - 4m = 5 + 1 m = 6 Put m = 6 in 5m - 1 = 4m + 5 5(6) - 1 = 4(6) + 5 30 - 1 = 24 + 5 29 = 29 Question 22. Answer: x = (y - b)/mExplanation: The equation for a line in slope-intercept form is y = mx + b y - b = mx (y - b)/m = x Question 36. Convert 200 degrees Celsius to Kelvin. Explain why it has no solution. Equations Chapter Review Explanation: Given that The formula for the circumference of a circle is $C = 2\pi r$ Divide each side by $2\pi C/2\pi = r$ Question 9. Write and solve an equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d Answer: d = 2 Explanation: Given equation is 8.5 = 6.5(2d - 3) + d6.5(2d - 3) + d 8.5 = 13d - 19.5 + d 8.5 = 14d - 19.5 + d 8.5 = 14d d = 28/14 d = 28day is 50. Explanation:
Prism volume = 1122 cubic inches Base b = 93.5 sq in Volume formula V = Bh 1122 = 93.5 x h h = 1122/93.5 h = 12 inches SOLVING AN EQUATION Write and solve an equation to find the value of x. Solve each equation to find the value of x. Solve each equation and explain your method. 5.5 Explanation: 6(x - 3) = 4x - 7 6x - 4x = -7 + 18 2x = 11 x = -7 4x = -7 4x11/2 x = 5.5 Question 14. Equations Cumulative Practice Question 1. PROBLEM SOLVING The formula for simple interest is I = Prt. What did the teacher spend on each microphone? Answer: Your team's score is 85 points Explanation: Your basketball team wins a game by 13 points. 3. Question 1. PROBLEM SOLVING The formula for simple interest is I = Prt. What did the teacher spend on each microphone? Answer: Your team's score is 85 points Explanation: Your basketball team wins a game by 13 points. 3. Question 1. PROBLEM SOLVING The formula for simple interest is I = Prt. What did the teacher spend on each microphone? Answer: Your team's score is 85 points Explanation: Your basketball team wins a game by 13 points. 3. Question 1. PROBLEM SOLVING The formula for simple interest is I = Prt. What did the teacher spend on each microphone? Answer: Your basketball team wins a game by 13 points. 3. Question 1. PROBLEM SOLVING The formula for simple interest is I = Prt. What did the teacher spend on each microphone? Answer: Your basketball team wins a game by 13 points. 3. Question 1. PROBLEM SOLVING The formula for simple interest is I = Prt. What did the teacher spend on each microphone? Answer: Your basketball team wins a game by 13 points. 3. Question 1. PROBLEM SOLVING The formula for simple interest is I = Prt. What did the teacher spend on each microphone? Answer: Your basketball team wins a game by 13 points. 3. Question 1. PROBLEM SOLVING The formula for simple interest is I = Prt. What did the teacher spend on each microphone? Answer: Your basketball team wins a game by 13 points. 3. Question 1. PROBLEM SOLVING The formula for simple interest is I = Prt. What did the teacher spend on each microphone? Answer: Your basketball team wins a game by 13 points. 3. Question 1. PROBLEM SOLVING The formula for simple interest is I = Prt. What did the teacher spend on each microphone? Answer: Your basketball team wins a game by 13 points. 3. Question 1. PROBLEM SOLVING The formula for simple interest is I = Prt. What did the tea pancakes and a fruit cup. The boiling point of mercury is about $(\frac{41}{200})$ of the boiling point of lead. Explanation: Given that, height h = feet Volume V = Bh/3 3V = Bh 3V/h = B = (3 x 360)/30 B = 36 Side² = 36 Side = $\sqrt{(36)}$ Side = 6 feet The base side length is 6 feet. They receive \$18, &=\$27, \$45 b. PROBLEM SOLVING A game of bowling has ten frames. What is the cost of the materials? 15 = 9 - 3a 6 = -3a -3a -3a -3a -3a of all sides P = 3x + 1 + 4x + 5 = 11x + 11 The sides of the second triangle are (4x + 5), (2x + 7) Perimeter = (4x + 5) + (2x + 7) = 12x + 19 Question 13. To help you out with chapter 4 Multiply Whole Numbers we have jotted down all the exercise problems in your Big Ideas Math Textbook. They are eliminated When you divide 15 by 2 you will get obviously answer greater than -15. The total of the remaining scores is multiplied by the degree of difficulty of the dive. Answer: a) x + 8 = 65 My score is 57 b) I won the game 2/3 (x + 6) = 2/3 x + 4 2/3 x + 2/3 (6) = 2/3 x + 4 2/3 x + 4 = 3/4 x + 3/4 4x = 3x + 3 4x - 3x = 3 x = 3 The object weight is 3 lb. x + 3 = -3 Subtract 3 from both sides x + 3 - 3 = -3 - 3 x = -6 b. 1.3 Solving Equations with Variables on Both Sides (pp. After how many months is your neighbor's total cost the same as your total cost when you own three televisions? Rewriting Equations and Formulas (pp. What is the total volume x of blood drawn? Answer: Wrong Explanation: -1.5 + k = 8.2 k = 8.2 + 1.5 k = 9.7 Question 32. The possible reason for unequal distribution is that the ratios are different for each of them. -7 = x + 4 f. Answer: t = -4 Explanation: Given equation is 1/4 t + 4 = 3/4(t + 8) + 1/4 t + 4 = 3/4(t + 8)6 = 4n + 1 - 6 - 1 = 4n - 2n - 7 = 2n n = -7/2 Put n = -7/2 P x) + 12x = 44 21(2 - (-2/9)) + 12(-2/9) = 21(2 + 2/9) - 24/9 = 42 + 42/9 - 24/9 = 42 + (42 - 24)/9 = 42 + (asked to find the original battery life of the phone. Write and solve an equation to find the amount of time it takes for you to catch up to your friend. (32 - 8) + 4 = 5 Explanation: Given expression is (32 - 8) + 4 = 5 Explanation:
Given expression is (32 - 8) + 4 = 5 Explanation: Given expression is (32 - 8) + 4 = 5 Explanation: Given expression is (32 - 8) + 4 = 5 + 7.5 + 7.5 + 8). Explanation: Let us take rent as x Then, discounted rent = x - 50 The increase applied is 10% So, final rent is (x - 50) + 10% = 1.05x 1.1x - 1.05x = 55 0.05x = 55 x = 55/0.05 x = 1100 Therefore, cousin's original monthly rent is \$1100.4. Answer: x = 180 Explanation: 0.25x + 7 = 1/3x - 8 $0.25x - \frac{1}{3}x = -8 - 7 \frac{25}{100x} - \frac{1}{3}x = -15 \frac{1}{4}x - \frac{1}{3}x - \frac{$ = 1.7 per ounce Explanation: \$8.50: 5 ounces Unit rate = \$8.50/5 = 1.7 per ounce Question 7. 4 + y = 9.5 Answer: y = 5.5 Explanation: Given equation is 4 + y = 9.5 Answer: y = 5.5 Explanation: Given equation is x - 2/3= -11/12 x = -11/12 + 2/3 x = (-11 + 8)/12 x = -3/12 x = -1/4 Put x = -1/4 in x - 2/3 = -11/12 (-3 - 8)/12 (-3 - 8)/12 (-3 - 8)/12 (-3 - 8)/12 (-3 - 8)/12 (-3 - 8)/12 (-3 - 8)/12 (-3 - 8)/12 (-3 - 8)/12 (-3 - 8)/12 (-Question 35. Lesson 1.1 Solving Simple Equations EXPLORATION 1 Work with a partner. Answer: $m = e/c^2 = m$ Question 22. Explanation: Speed of the bird = 20000 meters a) Distance + m question 22. Explanation: Speed of the bird = 20000 meters a) Distance + m question + m quest speed x time d = s x t t = d/s t = 30000/20000 t = 1.5 The bird flew 1.5 hour at Top speed b) Yes, I rewrite a formula to find the number of hours the bird flew 2 = $(6/7)p \times (7/6) = -7/3$ Explanation: Given equation is $-2 = (6/7)p \times (7/6) = -7/3$ Explanation: Given equation is $-2 = (6/7)p \times (7/6) = -7/3$ Explanation: Given equation is $-2 = (6/7)p \times (7/6) = -7/3$ Explanation: Given equation is $-2 = (6/7)p \times (7/6) = -7/3$ Explanation: Given equation is $-2 = (6/7)p \times (7/6) = -7/3$ Explanation: Given equation is $-2 = (6/7)p \times (7/6) = -7/3$ Explanation: Given equation is $-2 = (6/7)p \times (7/6) = -7/3$ Explanation: Given equation is $-2 = (6/7)p \times (7/6) = -7/3$ Explanation: Given equation is $-2 = (6/7)p \times (7/6) = -7/3$ Explanation: Given equation is $-2 = (6/7)p \times (7/6) = -7/3$ Explanation: Given equation is $-2 = (6/7)p \times (7/6) = -7/3$ Explanation: Given equation is $-2 = (6/7)p \times (7/6) = -7/3$ Explanation: Given equation is $-2 = (6/7)p \times (7/6) = -7/3$ Explanation: Given equation is -2 = -7/3 Explanation: Given equation is -2 = -7/3Question 5. Answer: p = 13 Explanation: Given equation is $p - 8 \div 1/2 = -3$ Add 16 to each side p - 16 = -3 Add 16 to each side p - 16Given that, length l = 6 in, width w = 3 in, height h = x in The surface area of rectangular prism = Volume of the rectangular prism = 0 Explanation: Given equation is (2/3)h + 11 = 8(1/3)h + 1(1/3)h + 11 = 8 (2/3)(-9) - (1/3)(-9) + 11 = -6 + 3 + 11 = 14 - 6 = 8 Question 17. h - 1 = 7.2 Add 1 to each side h - 1 + 1 = 7.2 Add 1 to each side h - 1 = 7.2 Add 1 to each side h - 1 = 7.2 Add 1 to each side h - 1 = 7.2 Add 1 to each side h - 1 = 7.2 Add 1 to each side h - 1 = 7.2 Add 1 to each side h - 1 = 7.2 Add 1 to = 2t - 6 The equation has infinitely many solutions. You are paid \$8 per hour and you paid \$40 for gas for the lawn mower. GEOMETRY Use the triangle shown. Answer: k = 5/3 Explanation: Given equation is $3/2 = (9/10) k \times (10/9) k \times (10/9) = (9/10) k \times (10/9) k \times (10/9) = (9/10) k \times (10/9) k \times (10/9)$ 28. The other scientist records a temperature of 950°C. REASONING The formula converts temperatures from degrees Fahrenheit F to Kelvin K. So, it does not have a soution Explanation: Given equation is 2x + 1 = 2x - 1 2x + 1problems that you encounter. MODELING REAL LIFE A discounted concert ticket costs \$14.50 less than the original price p. 11-16) Solve the equation. The solutions are prepared as per the list of the topics in Big Ideas Math Book 8th Grade Chapter 1 Equations. x + 6 = x Answer: The equation has no solution Explanation: Given equation is x + 6 = x Answer. x - x = -6 0 = -6 The equation has no solution Question 23. This is evidenced in our fun one step equations with whole numbers; solve one step equations with whole numbers; solve equations with whole numbers; model and solve equations with whole numbers. = -4 Explanation: Given equation is m - 4 = 2m 2m - m = -4 the bike at 12 miles per hour, then your friend rides a distance of 12t miles. When the battery is charged to 50% of its capacity, it dies after $4(\frac{1}{2})$ hours. You work as a sales representative. Answer: 2 + 3x = 17 Subtract 2 from each side 2 + 3x = 17 - 2 3x = 15 Divide each side by $3 \frac{3x}{3} = \frac{15}{3} x = 5$ Question 15. q + |3| = -5 Answer: q = -8 Explanation: q + |3| = -5 + 3 = -5 Subtract 3 from each side q + 3 - 3 = -5 - 3 = -5
Question 17. The radius of the Navy Pier Ferris Wheel is 70 feet b. x + 2x + x + 8 = 180 3x = 180 - 8 = -5 - 3 = -5 Question 17. The radius of the Navy Pier Ferris Wheel is 70 feet b. x + 2x + x + 8 = 180 3x = 180 - 8 = -5 - 3 = -5 - 3 = -5 Question 17. The radius of the Navy Pier Ferris Wheel is 70 feet b. x + 2x + x + 8 = 180 3x = 180 - 8 = -5 - 3 = -5 Question 17. The radius of the Navy Pier Ferris Wheel is 70 feet b. x + 2x + x + 8 = 180 3x = 180 - 8 = -5 - 3 = -5 Question 17. The radius of the Navy Pier Ferris Wheel is 70 feet b. x + 2x + x + 8 = 180 3x = 180 - 8 = -5 - 3 = -5 Question 17. The radius of the Navy Pier Ferris Wheel is 70 feet b. x + 2x + x + 8 = 180 3x = 180 - 8 = -5 - 3 = -5 Question 17. The radius of the Navy Pier Ferris Wheel is 70 feet b. x + 2x + x + 8 = 180 3x = 180 - 8 = -5 - 3 = -5 Question 17. The radius of the Navy Pier Ferris Wheel is 70 feet b. x + 2x + x + 8 = 180 3x = 180 - 8 = -5 - 3 = -5 Question 17. The radius of the Navy Pier Ferris Wheel is 70 feet b. x + 2x + x + 8 = 180 3x = 180 - 8 = -5 - 3are 57.33, 114.66, 65.33 Question 11. CRITICAL THINKING Which of the operations +, -, \times , \div , are inverses of each other? Which of the following equations represents the number x of packs? 12(2w - 3) = 6w 24w - 36 = 20 24w - 30 = 20 24 3) = 6w 12(2w - 3) = 6w 12(2(2) - 3) = 6(2) 12(4 - 3) = 12 12 = 12 Question 16. 6y + x = 8 Answer: y = (8 - x)/6 Question 31. 6(5 - 8v) + 12 = -54 Answer: v = 2 Explanation: Given equation is 6(5 - 8v) + 12 = -54 42v + 12 = -54 42v + 54 = 48v 96 = 48v v = 96/48 v = 96/48 v = -54 42v + 12 = -54 42v +2 Put v = 2 in $6(5 - 8v) + 12 = -54 \ 6(5 - 8c) + 12 = -6(5 - 16$ has infinitely many solutions Question 32. Bookmark our site to get the Big Ideas Math Grade 8 Chapterwise Pdf links. $400 + 0.05s = 1350 - 400 \ 0.05s = 1350 \ 0.05s$ = 12000 x = 12000/0.2 x = 60,000 MB One minute of video uses 60 MB of storage. Answer: You earned \$60 as interest. 60 miles in 5 hours Speed = 60 miles in 5 hours Speed = 12 miles per 1 hour Explanation: 60 miles in 5 hours Speed = 12 miles per 1 hour Explanation: 60 miles in 5 hours Speed = 12 miles per 1 hour Explanation: 60 miles in 5 hours Speed = 60 miles in 5 hours Speed a. -15 + 7.5(2d - 1) = 7.5 Answer: d = 2 Explanation: Given equation is -15 + 7.5(2d - 1) = 7.5 + 7.5(2d - 1) = -15 + 7.c P - a - c = b c. 25.) Question 8. You are biking at a speed of 18 miles per hour. The opposing team scores 72 points. The temperature outside is currently 23°C F = (9/5)23 + 32 F = 41.1 + 32 F = 73.4°C = 23° is greater than F = 70° So the outside temperature is temperature Question 11. Is this greater than or less than room temperature? (See Exploration 1, p. x 2(9x + 18) = 18x 18x - 18x = 18 0 = 18 SOLVING AN EQUATION Solve the equation is 0.09w = 1.8 Answer: w = 20 Explanation: Given equation is 0.09w = 1.8 Answer: w = 20 Explanation 2.09w = 1.8 Answer: w = 20 Expl 0.09w = 1.8 0.09 x 20 = 1.8 Question 7. Qu equation 6(x - 3) = 4x - 7 true? Answer: x - 3 = 9 does not belong with the other three. t + 8y = 7 Answer: t + 8y = 7 is a literal equation. A shuttle company charges \$3.25 plus \$0.55 per mile. Addition Property of Equality b. -3 = x - 2 Add 2 to each side 2 to ea -3 + 2 = x - 2 + 2 - 1 = x c. 2.5 + y = -3.5 Answer: y = -3.5 Explanation: Given equation is 2.5 + y = -3.5 Subtract 2.5 from each side 2.5 + y = -3.5 Cuestion 15. Understand the problem. Write and solve an equation to find the original price. How much interest did it earn? You conduct an inventory for a hardware store and count 40 rolls of duct tape. How can a runner develop a routine to help train for a half marathon? WRITING Would you solve the equation $0.25x + 7 = \sqrt{\frac{1}{3}} = -5$ Put x = -5 in -2x = x + 15 - 2(-5) = -5 + 15 10 = 10 Question 2. 14 = 6n + 6 - 2n As wer: n = 2 Explanation: Given equation is 14 = 6n + 6 - 2n 14 = 6n + 6 friend divides both sides of the equation by $(\frac{2}{5})$. So if you subtract a number from one side, you MUST subtract the same value from the other side. -5x + 1 = 31 Answer: x = -6 Explanation: Given equation is 31 - 5(-6) + 1 = 30 + 1 = 31 Question 9. 26° B. Since one serving of oatmeal provides 16% of the fiber you need daily, then 0.16x + 21 grams is the amount of fiber you need daily x and 0.16x + 21 both represent the total amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you need daily x and 0.16x + 21 both represent the total amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount
of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal If you get another 21 grams is the amount of fiber you get from oatmeal grams is the amount of fiber you get another 21 grams is of fiber you need daily So $0.16x + 21 = x \cdot 21 = x - 0.16x \cdot 21 = 0.84x \cdot x = 21/0.84 \cdot x = 21/0.84 \cdot x = 25$ The total amount of fiber you need daily is 25 grams. let the common multiplier for each of the people be x So, each one gets the value of 2x, 3x, 5x As per the question, the total amount of fiber you need daily is 25 grams. let the common multiplier for each of the people be x So, each one gets the value of 2x, 3x, 5x As per the question, the total amount of fiber you need daily is 25 grams. let the common multiplier for each of the people be x So, each one gets the value of 2x, 3x, 5x As per the question, the total amount of fiber you need daily is 25 grams. let the common multiplier for each of the people be x So, each one gets the value of 2x, 3x, 5x As per the question, the total amount of fiber you need daily is 25 grams. let the common multiplier for each of the people be x So, each one gets the value of 2x, 3x, 5x As per the question, the total amount of fiber you need daily is 25 grams. let the common multiplier for each one gets the value of 2x, 3x, 5x As per the question, the total amount of fiber you need daily is 25 grams. let the common multiplier for each one gets the value of 2x, 3x, 5x As per the question, the total amount of fiber you need daily is 25 grams. let the common multiplier for each one gets the value of 2x, 3x, 5x As per the question, the total amount of fiber you need daily is 25 grams. let the common multiplier for each one gets the value of 2x, 3x, 5x As per the question, the total amount of fiber you need daily is 25 grams. let the common multiplier for each one gets the value of 2x, 3x, 5x As per the question, the total amount of fiber you need daily is 25 grams. let the common multiplier for each one gets the value of 2x, 3x, 5x As per the question, the total amount of fiber you need daily is 25 grams. let the common multiplier for each one gets the value of 2x, 3x, 5x As per the question, the total amount of fiber you need daily is 25 grams. let the common multiplie receives 9(2) = \$18, 9(3) = \$27, 9(5) = \$45 b. Answer: x - 6 = 8 Add 6 to each side x - 6 + 6 = 8 + 6 x = 14 Question 9. 108° D. After five frames, your friend's score is 8 less than your friend's score is 8 less than your friend's bowling score is 8 less than your friend's score. Then check your solution. NUMBER SENSE The weight of an object is equal to \(\frac{3}{} {4}) of its own weight plus \(\frac{3}{4}\) of a pound. The length of the coastline1covered after the cleanup is of the previous length. Solve the formula for t. Answer: The value of x is 100. x + 6 = 7 g. By the end of the game, your friend's score doubles and your score increases by 80. t = I/Pr b. REWRITING A Formula for the circumference of a circle is $C = 2\pi r$. Question 6. The new balance is \(\frac{7}{6}\) of the original balance. Thus, you can find answers for any kind of question framed on the concept and clear your tests or assessments with higher scores. $V = 0.5 \times 8 \times 6 \times h + 132 = 24 \times h + 132 \times h +$ Target Heart Rates At the beginning of this chapter, you watched a STEAM Video called "Training for a Half Marathon." You are now ready to complete the performance task related to this video, available at BigIdeasMath.com. x - 4 = 1 Add 4 to each side x - 4 + 4 = 1 + 4 x = 5 d. You will be given information about a person's heart rate. -5 = w - 3Answer: w = -2 Explanation: -5 = w - 3 Add 3 to each side -5 + 3 = w - 3 + 3 - 2 = w Putting w = -2 in -5 = w - 3 - 5 = -2 - 3 Question 14. Width is 15.6 m Explanation: P = 21 + 2w a. Answer: 14 more weeks are required to save money to buy the new cell phone Explanation: The equation for the total amount saved 35 + 10x = 175 - 35 + 10x = 175 - 35 + 10x = 175 - 35 + 10x = 175 + 10x = 175140 x = 140/10 x = 1414 more weeks are required to save money to buy the new cell phone Question 12. Answer: a. solving simple equations using addition solving simple equations equations equations equations equations equations equa you complete the exercises, use the scale below to rate your understanding of the success criteria in your journal. 2(4z - 1) = 3(z + 2) 8z - 2 = 3z + 6 8z - 3z = 6 + 2 5z = 8 z = 8/5 Put z = 8/54/5 = 54/5 Question 18. Answer: A. x 2(14x + 33) = 33x 28x + 66 = 33x - 28x 66 = 5x x = 66/5 Question 9. Explanation: You begin the year with \$25 in a savings account and \$50 in a checking account. REASONING One-fourth of the girls and one-eighth of the boys in a grade retake their school pictures. Answer: Each friend donate \$10 Explanation: Assume x as the amount each friend donate the website keeps 5% of each donation The total funding you receive is 47.50. $1 + 5 \times 3^2 = 1 + 5 \times 9 = 1 + 40 = 41$ Question 3. 0.1x = 0.2(x + 2) Answer: $1 + 5 \times 3^2 = 1 + 5 \times 3$ 0.2x - 0.1x = -0.4 0.1x = -0.4 0.1x = -0.4 x = -0.4/0.1 x = -4 in 0.1x = 0.2(x + 2) 0.1(-4) = 0.2(-4 + 2) 0.4 = 0.2(-2) Question 19. What is the radius of the Navy Pier Ferris Wheel? Then use the new formula to find the height. As its name suggest, one step equations worksheets for grade 6 is a straight forward concept given to help kids understand easy solving one step equation word problem 6th grade as well as mathematically expressed one step equations. In other words, you only need to perform one step in order to solve an equation, having only one variable on one side and numbers on the other side of the equal sign. Equation is m = 39 - 10 m + 10 = 39 Question 9. DIG DEEPER! A hard drive is 80% full and has 12,000 MB of free space. Solve the formula for w. Find each angle measure in each figure. Explanation: Mean = 50 (55 + 45 + 53 + 44 + x)/5 = 50 ($197 + x = 250 \times 5 = 50 \times 5 = 250 - 197 \times x = 250 \times 5 = 25$ Explanation: Given that, F = (9/5)C + 32 Subtract 32 from each side F - 32 = (9/5)C + 32 - 32 F - 32 = (9/5)C + 32 32 = (9/5)Ch = 6 cm Explanation: a. h + 9 + g Answer: The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = h, g Coefficients = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = 1, 1 Explanation: Given that, h + 9 + g The constant = 9 Terms = 1, 1 Explanation: Given that, h6(7x + 7) = 7(6x + 6) Answer: The equation has infinitely many solutions Explanation: 3(x + 2) = 9/3x + 2 = 3 Subtract 2 from both sides x + 2 = 3 - 2x = 1 Self-1 Assessment for Problem Solving Solve each exercise. Answer: Perimeter = 7.5
Explanation: Perimeter is the sum of all sides of the polygon As it is a regular polygon As it is a regu has no solution Explanation: Given equation is 10x - 8/3 - 4x = 6x 6x - 8/3 = 6x 6x - 8/3 = 6x 6x - 6x = 8/3 0 = 8/3 The equation has no solution Question 33. Solve the equation and explain your method. The angles are complementary. In how many weeks will the total number of pizza crusts made by the pizza parlor be twice the total number of pizza crusts made by the diner? Use the new formula to find the height of the trapezoid. Perimeter = a + b + c P = a $= x + (1/3) \times 7 8/9 = -13/9 + (1/3) \times 7 = -13/9 + (1/3) \times 7 = -13/9 + 7/3 = (-13 + 21)/3$ Question 43. y + 8 = 3 Answer: y = -5 Question 2. Answer: y = -5 Explanation: Given equation is y + 8 = 3 Answer: y = -5 Question 2. Answer: y =Vocabulary The following vocabulary term is defined in this chapter. You have a five-mile head start and run at 7 miles per hour. Answer: addition (+), Subtraction (-) are inverse to each other. The side lengths of an isosceles triangle are (3x + 1) inches, (4x + 5) inches, C = 5/9 (F - 32) Put F = 1725 C = 5/9 (F - 32) = 5/9 (F - 32) Put F = 1725 C = 5/9 (F - 32) Pu (1693) = 940.55 This is smaller than 950°C Question 16. Answer: It will take 1/2 hour for you to catch up with your friend. The freezing point of helium is 0.95 Kelvin. A 455-foot fence encloses a pasture. Answer: m = 7.3 π m = 7 = 7.3 Question 26. For example; Find x, given that X - 3 = -5 - the variable is on the left and side of the equation. Using the Problem-Solving Plan Question 1. Which value of x makes the equation true? Write and solve an equation to find the value of x. PROBLEM SOLVING Cedar Point, an amusement park, has some of the tallest roller coasters in the United States. Find "both" answers: y = (7 - 3x)/5 Explanation: Given equation is 3x + (1/5)y = 7 Subtract 3x from each side 3x + (1/5)y - 3x = 7 - 3x (1/5)y = 7 - 3x Multiply each side by 5 (1/5)y = 7 - 3x/5 Question 15. 3 + 4.5(2d - 3) = 7.5 Answer: d = 2 Explanation: Given equation is 3 + 4.5(2d - 3) = 7.5 3 + 9d - 13.5 = 7.5 9d = 7.5 + 10.5 9d = 18 d = 18/9 d = 2 Put d = 2 in 3 + 4.5(2d - 3) = 7.5 3 + 4.5(2(2) - 3) = 3 + 4.5(4 - 3) = 7.5 3 + 9d - 13.5 = 7.5 9d = 7.5 + 10.5 9d = 18 d = 18/9 d = 2 Put d = 2 in 3 + 4.5(2d - 3) = 7.5 3 + 4.5(2d - 3) =3 = 3 + 4.5(1) = 3 + 4.5 = 7.5 Question 14. Question 38. MODELING REAL LIFE A rocket is scheduled to launch from a command center in 3.75 hours. Explanation: The equation P = 2.5m + 35 represents the price of a bracelet The price of a bracelet is \$115 + 35 = 2.5m + 35 represents the price of a bracelet is \$115 + 35 = 2.5m + 35 represents the price of a bracelet The price of a bracelet The price of a bracelet is \$115 + 35 = 2.5m + 35 represents the price of a bracelet is \$115 + 35 = 2.5m + 35 represents the price of a bracelet The price of a bracelet The price of a bracelet is \$115 + 35 = 2.5m + 35 represents the price of a bracelet is \$115 + 35 = 2.5m + 35 represents the price of a bracelet The price of a bracelet is \$115 + 35 = 2.5m + 35 represents the price of a bracelet is \$115 + 35 = 2.5m + 35 represents the price of a bracelet is \$115 + 35 = 2.5m + 35 represents the price of a bracelet The price of a the materials is \$32. Your basketball team wins a game by 13 points. 4.75 Answer: C. OPEN-ENDED Write an equation has infinitely many solutions Question 36. Explanation: The height of the house is 26 feet x + x + 6 = 26 2x + 6 = 26 2x = 26 - 6 2x = 20 x = 20/2 x = 10 fm Height of each story is 10 ft. $-3 = h + 8 \div 2$ Answer: h = -7 Explanation: Given equation is $-3 = h + 8 \div 2 - 3 = h + 4$ Subtract 4 from each side -3 - 4 = h + 4 - 4 - 7 = h Putting h = -7 in $-3 = h + 8 \div 2 - 3 = -7 + 8 \div 2 = -7 + 4$ Question 39. Solving Equations with Variables on Both Sides Homework & practice 1.3 Review & Refresh Solve the equation. You need \$175 to buy the cell phone. t = I/Pr Put above values in the formula t = $75/(500 \times 5) = 1/20$ Question 28. The sum of the angle measures of a quadrilateral x is 360°. Answer: p = -1/12 = -5/6 Question 24. Explanation: Given that, 7x + 3x + 10 = -2(x + 1) One solution 7x + 3x + 10 = -2(10x + 10) 10x + 10 = -20x - 20 10x + 20x = -20 - 10 30x = -30/3 x = -1 Infinite solution 7x + 3x + 10 = -2(-5x + 1) 10x + 10x + 10x + 10x + 10x + 10x +Given equation is t - 1/4 = -3/4 Add 1/4 to each side t - 1/4 = -3/4 + 1/4 = -3/4 + 1/4 = -3/4 + 1/4 = -3/4 Try It Solve the equation: Given equation is 4(z - 3) = 2z Answer: z = 6 Explanation: Given equation is 4(z - 3) = 2z Answer: z = 6 Explanation: Given equation is 4(z - 3) = 2z Answer: z = 6 Explanation: Given equation is 4(z - 3) = -1/2 in t - 1/4 = -3/4 Try It Solve the equation is 4(z - 3) = 2z Answer: z = 6 Explanation: Given equation is 4(z - 3) = -1/2 in t - 1/4 = -3/4 Try It Solve the equation is 4(z - 3) = 2z Answer: z = 6 Explanation: Given equation is 4(z - 3) = -1/2 in t - 1/4 = -3/4 Try It Solve the equation is 4(z - 3) = 2z Answer: z = 6 Explanation: Given equation is 4(z - 3) = -1/2 in t - 1/4 = -3/4 Try It Solve the equation is 4(z - 3) = -1/2 in t - 1/4 = -3/4 Try It Solve the equation is 4(z - 3) = -1/2 in t - 1/4 = -3/4 Try It Solve the equation is 4(z - 3) = -1/2 in t - 1/4 = -3/4 Try It Solve the equation is 4(z - 3) = -1/2 Answer: z = 6 Explanation: Given equation is 4(z - 3) = -1/2 Here (z - 33) = 2z 4z - 12 = 2z 4z - 2z = 12 2z = 6 Put z = 6 in 4(z - 3) = 2z 4(6 - 3)share teaching resources. Watch the STEAM Video "Training for a Half Marathon." Then answer the following questions. 8 Explanation: 4x = 32 Divide each side by $4 \frac{4x}{4} = 32/4 x = 8$ Question 2. MODELING REAL LIFE After earning interest, the balance of an account is \$420. -0.125 Answer: -0.125 = -1/8 Explanation: 4x = 32 Divide each side by $4 \frac{4x}{4} = 32/4 x = 8$ Question 2. MODELING REAL LIFE After earning interest, the balance of an account is \$420. -0.125 Answer: -0.125 = -1/8 Explanation: 4x = 32 Divide each side by $4 \frac{4x}{4} = 32/4 x = 8$ Question 2. MODELING REAL LIFE After earning interest, the balance of an account is \$420. -0.125 Answer: -0.125 = -1/8 Explanation: 4x = 32 Divide each side by $4 \frac{4x}{4} = 32/4 x = 8$ Question 2. MODELING REAL LIFE After earning interest, the balance of an account is \$420. -0.125 Answer: -0.125 = -1/8 Explanation: 4x = 32 Divide each side by $4 \frac{4x}{4} = 32/4 x = 8$ Question 2. MODELING REAL LIFE After earning interest,
the balance of an account is \$420. -0.125 Answer: -0.125 = -1/8 Explanation: 4x = 32 Divide each side by $4 \frac{4x}{4} = 32/4 x = 8$ Question 2. MODELING REAL LIFE After earning interest, the balance of an account is \$420. -0.125 Answer: -0.125 = -1/8 Explanation: 4x = 32 Divide each side by $4 \frac{4x}{4} = 32/4 x = 8$ Question 2. MODELING REAL LIFE After earning interest, the balance of an account is \$420. -0.125 Answer: -0.125 An Fraction form of the decimal = -125/1000 = -1/8 Concepts, Skills, & Problem Solving FINDING ANGLE MEASURES Find each angle measure in the figure. And add or subtract the same quantity on both sides of the equation. 11q + 2 Answer: The constant = 2 Terms = p Coefficients = 11 Explanation: Given that, 11q + 2 The constant = 2 Terms = p Coefficients = 11 Question 5. What is the area of each square? x. MODELING REAL LIFE In which city is the water temperature higher? What factors might affect the range of a person's target heart rate? -3 = k + 3 Answer: k = -6 Explanation: Given equation is -3 = k + 3 Subtract 3 from each side -3 - 3 = k+ 3 - 3 - 6 = k Putting k = -6 in -3 = k + 3 -3 = -6 + 3 Question 3. We're told that the discount price, which you pay, is \$ 14.50 less than the original price, which will be represented by p. -9z + 2 = 11 - 9z + 2 = 2 = 11 - 9z + 2 = 2 = 11 - 9z + 2 Question 2. OPEN-ENDED Explain how to solve the equation: Let x be the number of hours you work this week 8x - 40 = 24 8x = 8 You work for 8 hours this week. Y + 8 = -11 Answer: y = -19 Explanation: Given equation is y + 8 = -11 y + 8 = -8 = -11 - 8 y = -19 Put y = -19 in y + 8 = -11 Question 2. Question 2. Restriction 2. Restrine 2. Restriction 2. Restriction 2. Restricti solutions. Answer: Cousin's original monthly rent is \$1100. A teacher spends \$354 on costumes and microphones for six cast members in a play. Answer: The side length of the square is 12 units. REWRITING AN EQUATION Solve the equation for y. performance Getting Ready for Chapter 1 Lesson: 1 Solving Simple Equations Lesson: 2 Solving Multi-step Equations and Formulas Chapter: 1 - Equations with Variables on Both Sides Lesson: 4 Rewriting Equations and Formulas Chapter: 1 - Equa Grade 8 Chapter 1 Equations pdf link with your besties and help them to overcome their difficulties in maths. Answer: x = 45° Explanation: Complementary angles mean the sum of angles is 90 degrees. Answer: x = 45° Explanation: Complementary angles mean the sum of angles is 90 degrees. consume daily? P = a + b + c Answer: a = P - b - c Explanation: Given that, P = a + b + c P - b - c = a = P - b - c Question 24. Question 25. z - 15b - 7 = 15b - 45 + 70 = -38 The equation has no solution Question 26. z - 15b - 7 = 15b - 45 + 70 = -38 The equation has no solution Question 26. z - 15b - 7 = -38 The equation has no solution Parameters (15b - 7) = 3(15b - 7) = -45 + 70 = -38 The equation has no solution Question 26. z - 15b - 15b = -45 + 70 = -38 The equation has no solution Question 26. z - 15b - 15b = -45 + 70 = -38 The equation has no solution Question 26. z - 15b - 15b = -45 + 70 = -38 The equation has no solution Question 26. z - 15b - 15b = -45 + 70 = -38 The equation has no solution Question 26. z - 15b - 15b = -45 + 70 = -38 The equation has no solution Question 26. z - 15b - 15b = -45 + 70 = -38 The equation has no solution Question 26. z - 15b - 15b = -45 + 70 = -38 The equation has no solution Question 26. z - 15b - 15b = -45 + 70 = -38 The equation has no solution Question 26. z - 15b - 15b = -45 + 70 = -38 The equation has no solution Question 26. z - 15b - 15b = -45 + 70 = -38 The equation has no solution Question 26. z - 15b - 15b = -45 + 70 = -38 The equation has no solution Question 26. z - 15b - 15b = -45 + 70 = -38 The equation has no solution Question 26. z - 15b - 15b = -36 The equation has no solution Question 26. z - 15b - 15b = -36 The equation has no solution Question 26. z - 15b - 15b = -36 The equation has no solution Question 26. z - 15b - 15b = -36 The equation has no solution Question 26. z - 15b - 15b = -36 The equation has no solution Question 26. z - 15b - 15b = -36 The equation has no solution Question 26. z - 15b - 15b = -36 The equation has no solution Question 26. z - 15b - 15b = -36 The equation has no solution Question 26. z - 15b - 15b = -36 $(\frac{2}{3}) = (\frac{1}{2} + \frac{1}{2} + \frac$ 6x 8x - 6x = 4 2x = 4 x = 4/2 x = 2 So in 2 hours, your friend bikes 2. You have a four-mile head start and jog at 6 miles per hour. 5y - x = 10 Add x to both sides 5y - x = 10 Answer: y = (10 + x)/5 Explanation: Height of the Millennium Force = 310 Feet The mantis is shorter than Millennium Force by 165 feet Let us take x as the height of the mantis is $4\pi = w - 6\pi$ Answer: $w = 10\pi$ in $4\pi = w - 6\pi$ Answer: $w = 10\pi$ in $4\pi = w - 6\pi$ $4\pi = 10\pi - 6\pi$ Question 17. Work with a partner. b) In x hours you jog the distance 7x, while your friend bikes 17x + 7x = 5 + 7x + 7x = 5 In 0.5 hours, your friend bikes $0.5 \times 17 = 8.5$ miles So he will pass you before the end of the trail because 8.5 < 10. The total funding you receive is \$47.50. Answer: The equation 1/2 (6t -4 = 3t - 2 is always true. Which is the greater temperature? Find the value of x. GEOMETRY The volume of a square pyramid with a height of 30 feet is 360 cubic feet. D = \(\frac{m}{V}\) Answer: V = m/D Question 26. By lunchtime, the grocer has given out 5 fewer than half the total number of samples. z = 4x + 9y is a literal equation. DIFFERENT WORDS, SAME QUESTION Which is different? WRITING Are the equations equivalent? Each week you deposit \$5 into the savings account and \$10 into the checking account. Explanation: The volume of red blood cells in a blood sample is equal to the total volume of plasma. Answer: Wrong Explanation: 2x - y = 5 Subtract 2x from each side 2x - y = -2x + 5y = 5 - 2x REWRITING A FORMULA Solve the formula for the red variable. YOU BE THE TEACHER Your friend solves the equation shown. Question 48. Hence Download Big Ideas Math Answers Grade 8 Chapter 1 Equations pdf and learn the fundamentals in an easy manner. x = 1 g. Explanation: The trapezoid area formula is (a + b)/2 x height Given trapezoid area = 21 sq. in (8 + x)/2 = 21/3 (8 + x)/2 = 7 (8 + x) = 7 x 2 8 + x = 14 x = 14 - 8 x = 6 The missing base is 6 in. Question 4. The temperature of dry ice is -78.5° C. 2(t-3) = 2t - 6 Answer: The equation has infinitely many solutions. m = 39 + 10 G. 2y - 4x = -6 2y = -6 + 4x y = (4x - 6)/2 y = 2x - 3 4. Answer: W = 19 Explanation: Given equation is 12 = w - |-7| Answer: w = 19 Explanation: Given equation is 12 = w - |-7| Answer: W = 10 G. 2y - 4x = -6 2y = -6 + 4x y = (4x - 6)/2 y = 2x - 3 4. Answer: W = 10 G. 2y - 4x = -6 2y = -6 + 4x y = (4x - 6)/2 y = 2x - 3 4. Answer: W = 10 G. 2y - 4x = -6 2y = -6 + 4x y = (4x - 6)/2 y = 2x - 3 4. Answer: W = 10 G. 2y - 4x = -6 2y = -6 + 4x y = (4x - 6)/2 y = -6 2y = -6 + 4x y = (4x - 6)/2 y = 2x - 3 4. Answer: W = 10 G. 2y - 4x = -6 2y = -6 2y = -6 + 4x y = (4x - 6)/2 y = 2x - 3 4. Answer: W = 10 G. 2y - 4x = -6 2y = -6 2y = -6 + 4x y = (4x - 6)/2 y = -2x - 3 4. Answer: W = 10 G. 2y - 4x = -6 2y = -7 2x - 3 4. 7 19 = w Putting w = 19 in 12 = w - |-7| 12 = 19 - |-7| 12 = 19 - 7 Question 40. Explanation: C = 15n + 85 385 = 15n + 85 15n = 300 n = 300/15 n = 20 So, 20 watches can be manufactured. 0.6 = 77.737. Write an equation that you can use to find s. \(\frac{1}{3}\) x - 9 = -12 Answer: x = -9 Explanation: Given equation is (1/3)x - 9 = -12 Answer: (1/3)x - 9 = -12-12 (1/3)x = -12 + 9 (1/3)x = -3 x = -3 x 3 x = -9 Put x = -9 in (1/3)(-9) - 9 = -12 (1/3)(-9) - 9 = -3 - 9 = -12 Question 10.50 + 10x = 50 + 10x =equations to solve. 23 G. One scientist records a temperature of 1725°F. (1/4)g = 16 g = 16 x 4 g = 64 According to the question, only one-eighth of the total number of boys(b) have retaken their pictures which is 7. Explanation: Given the running details on week 4 is Monday - 2.0, Wednesday - 2.1, Friday - 1.9, Saturday - 5.5 The average number of miles per running day of week 4 = (2.0 + 2.1 + 1.9 + 5.5)/4 = 11.5/4 = 2.875 miles per day. 3 = -5/6 Add 3/4 to each side p - 3/4 + 3/4 = -5/6 Add 3/4 to each side p - 3/4 + 3/4 = -5/6 Add 3/4 to each side p - 3/4 + 3/4 = -5/6 Add 3/4 to each side p - 3/4 + 3/4 = -5/6 Add 3/4 to each side p - 3/4 + 3/4 = -5/6 Add 3/4 to each side p - 3/4 + 3/4 = -5/6 Add 3/4 to each side p - 3/4 + 3/4 = -5/6 Add 3/4 to each side p - 3/4 + 3/4 = -5/6 Add 3/4 to each side p - 3/4 = -5/6 Add 3/4 to each side p - 3/4 = -5/6 Add 3/4 to each side p - 3/4 = -5/6 Add 3/4 to each
side p - 3/4 = -5/6 Add 3/4 to each side p - 3/4 = -5/6 Add 3/4 to Subtract 5x from each side 5x + 6 - 5x = 6x + 7 - 5x 6 = x + 7 Subtract 7 from each side 6 - 7 = x + 7 - 7 - 1 = x STRUCTURE Without solving, determine whether the equation, no solution, or infinitely many solutions. Show your work. A parallelogram with area A and base b A rectangular prism with volume V, length l, and width w A triangle with area A and base b b. What is the area of each circle? Your total bill is 11.50.3(5p - 3) = 5(p - 1) 15p - 9 = 5p - 515p - 5p = -5 + 910p = 4p = 4/10 p = 2/5 Rut p = 2/5 Put p = 2/5 be asked to find the range of a person's target heart rate. Explanation: Given equations are x + 3 = 4 and x = 1 x = 4 - 3 & x = 1 Question 11. You spend \$39 on a taxi. Answer: The angles of the triangle are 37.5° , 75° , 67.5° . What can you conclude from the drawing? How many samples did the grocer prepare if she gives out 50 samples of the triangle are 37.5° , 75° , 67.5° . What can you conclude from the drawing? before lunch? This product is multiplied by 0.6 to determine the final score. Getting Ready for Chapter 1 Chapter 1 Chapter 1 Chapter 1 Chapter 1 Chapter 1 Chapter 2 - 6x + 3y Answer: y = (12 - 6x)/3 Explanation: Given equation is 12 = 6x + 3y Subtract 6x from each side 12 - 6x = 3y Divide each side by 3(12 - 6x)/3 = 3y/3 y = (12 - 6x)/3 Try It Solve the formula for the red variable. 4x = 6 + 2y 4x - 6 = 2y (4x - 6)/2 = y y = [2(2x - 3)]/2 y = (2x - 3)/2 y =-8p = 4p - 24 - 8(-2) = 4(-2) - 24 + 16 = -8 Question 15. Question 31. 1.1x + 1.2x - 5.4 = -10 Answer: x = -2 Explanation: Given equation is 1.1x + 1.2x - 5.4 = -10 2.3x = -4.6 x = -4.6/2.3 x = -2 Put x = -2 in 1.1x + 1.2x - 5.4 = -10 2.3x = -4.6 x = -4.6/2.3 x = -2 Put x = -2 in 1.1x + 1.2x - 5.4 = -10 2.3x = -4.6 x = -4.6/2.3 x = -2 Put x = -2 in 1.1x + 1.2x - 5.4 = -10 2.3x = -4.6 x = -4.6/2.3 x = -2 Put x = -2Given equation is (1/6)d + 2/3 = 1/4 (d - 2)(1/6)d + 2/3 = 1/4 (d - 2)(1/6)d + 2/3 = 1/4 (1/2 - 2/3)(4d - 6d)/24 = -7/6 d = -7/6 x (-24/2) d = 14 Put d = 14 in (1/6)d + 2/3 = 1/4 (1/2 - 2)(1/6)d + 2/3 (1/2 - 2)(1/6)d + 2/3 (1/2 how to solve this type of equation. 19 - 4c = 17 + 4c Subtract 17 from each side 19 - 4c = 17 + 4c Subtract 18 from each side 19 - 4c = 17 + 4c Subtract 19 from each side 19 - 4c = 17 + 4c Subtract 19 from each side 19 - 4c = 17 + 4c Subtract 19 from each side 19 - 4c = 17 + 4c Subtract 19 from each side 19 - 4c = 17 + 4c Subtract 19 from each side 19 - 4c = 17 + 4c Subtract 19 from each side 19 - 4c = 17 + 4c Subtract 19 from each side 19 - 4c = 17 + 4c Subtract 19 from each side 19 - 4c = 17 + 4c Subtract 19 from each side 19 - 4c = 17 + 4c Subtract 19 fro = 87.2 ft/min The wheel is moving with 87.2 ft/min Equations Connecting Concepts Connecting Concepts Problem-Solving Strategies Using an appropriate strategy will help you make sense of problems as you study the mathematics in this course. How much do you earn per hour? π = 7x - 2y Answer: y = (7x - π)/2 Explanation: Given equation is π = = 23 Question 5. x = -1 c. Write the formula for the area A of a trapezoid. Earnings = 400 + 0.05(5000) = 400 + 250 = 650 b. Convert 240°F to Kelvin. Find the height of the prism. SOLVING EQUATIONS USING MULTIPLICATION OR DIVISION Solve the equation. Part A Last week, you had total sales of \$5000. Solve the formula for r. 2.5y + 6 = 4.5y - 1 Answer: y = 3.5 Explanation: Given equation is 2.5y + 6 = 4.5y - 1.6 + 1 = 4.5y - 2.5y = 7/2 y = 7/2 y = 3.5 Explanation: Given equation is 2.5y + 6 = 4.5(3.5) + 6 = 4.5 $= 0.05x \ 60t = 0.05x \ 60000 \ 60t = 3000/60t = 300/60t = 300/60t = 300/60t = 300/60t = 300/60t$ 6 in 5x - 7 = 4x - 1 5(6) - 7 = 4(6) - 1 30 - 7 = 24 - 1 23 = 23 Question 28. How far do they have to run on Saturday to average 4.75 miles per running day in Week Nine? Answer: Height = 6 inch Explanation: Volume V = Base area x height h = V/B h = 36/6 h = 6 inch IDENTIFYING LITERAL EQUATIONS Is the equation a literal equation? Answer: The weight of the DVD with its packing material is around 0.19 lb. A taxi company charges \$2.50 plus \$0.60 per mile. PROBLEM SOLVING A grocer prepares free samples of a salad to give out during the day. Question 29. Each cast member receives a costume that costs \$38 and a microphone that costs \$c. Answer: The greater temperature is 950°C The formula d = rt relates distance, rate, and time. Expand brackets 8x - 12 + 9 = 19 Simplify 8x - 13 = 19 + 13 8x = 32 Divide each side 8x - 13 + 13 = 19 + 13 8x = 32 Divide each side 8x - 13 + 13 = 19 + 13 8x = 32 Divide each side 8x - 13 + 13 = 19 + 13 8x = 32 Divide each side 8x - 13 + 13 = 19 + 13 8x = 32 Divide each side 8x - 13 + 13 = 19 + 13 8x = 32 Divide each side 8x - 13 + 13 = 19 + 13 8x = 32 Divide each side 8x - 13 + 13 = 19 + 13 8x = 32 Divide each side 8x - 13 + 13 = 19 + 13 8x = 32 Divide each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 + 13 8x = 32 Divide each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13
to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8x - 13 + 13 = 19 Add 13 to each side 8xis 7x = 35 divide each side by $7 \frac{7x}{7} = 35/7 x = 5$ putting x = 5 in 7x = 357(5) = 35 Question 23. The battery life of a one-year-old cell phone is 75% of its original battery life. Answer: p = 33 Explanation: Given equation is $p - 9 \div 1/3 = 6 33 - 9 \div 1/3 = 33 - 9 \div 1/3 = 6 27 + 27 = 6 + 27 p = 33$ Putting p = 33 in $p - 9 \div 1/3 = 6 33 - 9 \div 1/3 = 33 - 9 \div 1/3 = 6 33 - 9 \div 1$ = 6 Question 16. Let s be the sum of the scores given by 5 judges s x 4 x 0.6 = 97.2 2.4 s = 97.2 / 2.4 s = 97. Explanation: Given that, b = 4.5, h = 2, l = 3.5 The volume of Triangular Prism = $\frac{1}{2} \times b \times h \times l V = \frac{1}{2} \times 4.5 \times 2 \times 3.5 = 4.5 \times 1 \times 3.5 = 15.75$ cubic cm Question 7. 0.75 Explanation: Given equation is 3y + 8 = 7y + 118 - 11 = 7y - 3y - 3 = -4y = 3/4 Question 10. The diameter of the purple circle is 3x. LOGIC Without solving, determine whether the The total cost excluding the tip would be a sum of 1.5 for a fruit cup and twice of price of each pancake servings(b), hence the price should be 1.5 + 2b. 6x = 5x + 22 6x - 5x = 22 x = 22 Put Answer: d = -1 Explanation: Given equation is 5 + 1.5(2d - 1) = 0.55 + 3d - 1.5 = 0.53d = -3.53d =lengths of an isosceles triangle are (3x + 1) inches, (4x + 5) inches, and (2x + 7) inches. Answer: 3x + 6 = 36 Explanation: 3x + 6 = 36 Explanat manufactured. Explanation: Let x be the battery life of the one-year-old cell phone. SOLVING AN EQUATION Solve the equation. K = 5/9 (F - 32) + 273.15 b. w = (P - 21)/2 b. The customer pays 15% tip that means 0.15 times the bill. Answer: The total amount of fiber you need daily is 25 grams. What is one possible reason the money is not divided long was your taxi ride? 11(20/60) - 3(3/4) = 11(1/3) - 3(3/4) = 34/3 - 15/4 = (136 - 45)/12 = 91/12 = 7(7/12) The time is 7:35 Question 6. You start 3 miles behind your friend so that distance you ride to catch up to your friend is 3 more than the distance your friend rides. Can this same hallway be painted with the same pattern, but using twice as much black paint as white paint? Answer: The length of each side of the pasture is 50 ft, 150 ft, 180 ft, 75 ft. Answer: r = -7/24 Explanation: Given equation is 3/8 = r + 2/3 Subtract 2/3 from each side 3/8 - 2/3 = r + 2/3 - 2/3 (9 - 16)/24 = r -7/24 = r -7= -8 Putting q = -8 in q + |-10| = 2 - 8 + |-10| = 2 - 8 + |-10| = -8 + 10 = 2 Self-Assessment for Concepts & Skills Solve each exercise. x + 45 = 90 x = 42 x = 4/2 x = 4/2= 2 Question 50. Two scientists are measuring the temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that in Portland the water temperatures of lava. 3.) Question 9. Explanation: By observing the image we can say that i Question 31. What scores could the judges have given the diver? 28 C. Be sure to use the problem-solving plan as you work through the performance task. Question 39. Explanation: t + 8y = 7 is a literal equation because it has two variables t, and y. Answer: y = 30x - 45 Explanation: t + 8y = 7 is a literal equation because it has two variables t, and y. Answer: y = 30x - 45 Explanation: t + 8y = 7 is a literal equation because it has two variables t, and y. Answer: y = 30x - 45 Explanation: t + 8y = 7 is a literal equation because it has two variables t, and y. Answer: y = 30x - 45 Explanation: t + 8y = 7 is a literal equation because it has two variables t, and y. Answer: y = 30x - 45 Explanation: t + 8y = 7 is a literal equation because it has two variables t, and y. Answer: y = 30x - 45 Explanation: t + 8y = 7 is a literal equation because it has two variables t, and y. Answer: y = 30x - 45 Explanation: t + 8y = 7 is a literal equation because it has two variables t, and y. Answer: y = 30x - 45 Explanation: t + 8y = 7 is a literal equation because it has two variables t, and y. Answer: y = 30x - 45 Explanation: t + 8y = 7 is a literal equation because it has two variables t, and y. Answer: y = 30x - 45 Explanation: t + 8y = 7 is a literal equation because it has two variables t, and y. Answer: y = 30x - 45 Explanation: t + 8y = 7 is a literal equation because it has two variables t, and y. Answer: y = 30x - 45 Explanation: t + 8y = 7 is a literal equation because it has two variables t, and y = 15. 10x)-3y = -45 + 30x y = 30x - 45 Question 32. You also know that the battery life of the phone is 75% of its original battery life. Question $27.6\pi = \pi x$ Answer: x = 6 Explanation: Given equation is $6\pi = \pi x$ Answer: x = 6 Explanation: Given equation is $6\pi = \pi x$ Answer: x = 6 Explanation is $6\pi = \pi x$ Answer: x = 6 Explanation is $6\pi = \pi x$ Answer: x = 6 in $6\pi = \pi x$ Answer: Multiply both sides of the equation by 5/2 Explanation: 2/5 = 14 Multiply both sides of the equation by 5/2 2/5 = 14(5/2) = 14(5/2) = 14(5/2) = 12 Answer: p = 21 Explanation: Given equation is -9 + p = 12 Answer: p = 21 Explanation: -9 + p = 12 Answer: p = 21 Explanation: -9 + p = 12 Answer: p = 21 Explanation: -9 + p = 12 Answer: p = 21 Explanation: -9 + p = 12 Answer: p = 21 Explanation: -9 + p = 12 Answer: p = 21 Explanation: -9 + p = 12 Answer: p = 21 Explanation: -9 + p = 12 Answer: p = 21 Explanation: -9 + p = 12 Answer: p = 21 Explanation: -9 + p = 12 Answer: p = 21 Explanation: -9 + p = 12 Answer: p = 21 Explanation: -9 + p = 12 Answer: p = 21 Explanation: -9 + p = 12 Answer: Information Frame for solving equations with variables on both sides. You think you can save \$10 per week. STRUCTURE A gym teacher orders 42 tennis balls. Question 3. Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that,
Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: Given that, Area of the rectangle A = bh Answer: b = A/h Explanation: G DEEPER! You use a crowdfunding website to raise money. Explanation: 3x + 5 = 2(x + 7) Multiply each side by 8 6 x 8 = -w/8 Kultiply each side by 8 - -w/8 Kultiply each si 25. -3.3m = -1.1 Answer: m = 1/3 Explanation: Given equation is -3.3m = -1.1 Divide each side by -3.3 - 3.3m/-3.3 = -1.1/-3.3 m = 1/3 Write the decimal as a fraction or mixed number in simplest form. Answer: 2y - 4x = 6 Explanation: 1. How long is the hallway? x - 8 = x - 1 Answer: The equation has no solution Explanation: Given equation is x - 8 = x. - 1 x - x = -1 + 8 0 = 7 The equation has no solution, no solution, and infinitely many solutions. The degree of difficulty of dive is 3.5 b. Answer: The missing base is 6 in. Answer: a) The bird flew 1.5 hours at Top speed b) Yes, I rewrite a formula to find the number of hours the bird flew. Performance Task Target Heart Rates After completing this chapter, you will be able to use the concepts you learned to answer the questions in the STEAM Video Performance Task. 7t + 3 = 8 + 7t 7t - 7t = 8 - 30 = 5 The equation has no solution Question 25. 18 mi Explanation: To know the miles you traveled, we have to find the solution of the equation 2m + 3 = 39 2m = 36 m = 36/2 $2.8 \div 0.2 = -14$ Answer: d = 0 Explanation: Given equation is d - 2.8 \div 0.2 = -14 d - 14 = -14 + 14 d = 0 Put d = 0 in d - 2.8 \div 0.2 = -14 Question 42. Explanation: Number of miles the algae previously covered Equation is (1/3)x = 2x = 2x3 x = 6 Miles of the coast the algae previously covered is 6 miles. Algebraically, this means that c = p - 14.5 Now, solve for p = 53 + 14.5 p = 67.50 So, the original price was \$67.50. Answer: The water temperature is higher in Portland. DIG DEEPER! You and your friend race on a trail that is 10 miles long.

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