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Test yourself by practicing the problems from Texas Go Math Grade 8 Lesson 7.2 Answer Key Angle Theorems for Triangles. Texas Go Math Grade 8 Lesson 7.2 Explore Activity Answer Key Explore Activity 1 Sum of the Angle Measures in a Triangle There is a special relationship between the measures of the interior angles of a triangle. A. Draw a triangle and cut it out. Label the angles A, B, and C. B. Tear off each “corner” of the triangle. Each corner includes the vertex of one angle of the triangle. C. Arrange the vertices of the triangle around a point so that none of your corners overlap and there are no gaps between them. D. What do you notice about how the angles fit together around a point? E. What is the measure of a straight angle? F. Describe the relationship among the measures of the angles of △ ABC. The Triangle Sum Theorem states that for △ ABC, m∠A + m∠B + m∠C = _____. Reflect Question 1. Justify Reasoning Can a triangle have two right angles? Explain. Answer: We already know that all angles of a triangle add up to 180°. If the first two angles add up to 180° (2 right angles, 90° each), it means that the third one must measure 0°, which does not make sense. Therefore, a triangle cannot have two right angles. Lesson 7.2 Isosceles and Equilateral Triangles Answer Key Question 2. Analyze Relationships Describe the relationship between the two acute angles in a right triangle. Explain your reasoning. Answer: A right triangle is a triangle that has one right angle and two other acute angles. Since we know that all angles of a triangle add up to 180°, and we have one angle of 90° in a right triangle, it means that the sum of the other two acute angles will be 90° (180° – 90°). Explore Activity 2 Justifying the Triangle Sum Theorem You can use your knowledge of parallel lines intersected by a transversal to informally justify the Triangle Sum Theorem. Follow the steps to informally prove the Triangle Sum Theorem. You should draw each step on your own paper. The figures below are provided for you to check your work. A. Draw a triangle and label the angles as ∠1, ∠2, and ∠3 as shown. B. Draw line a through the base of the triangle. C. The Parallel Postulate states that through a point not on a line 2, there is exactly one line parallel to line 2. Draw line b parallel to line o, through the vertex opposite the base of the triangle. D. Extend each of the non-base sides of the triangle to form transversal s and transversal t. Transversals s and t intersect parallel lines a and b. E. Label the angles formed by line b and the transversals as ∠4 and ∠5. F. Because ∠4 and _____ are alternate interior angles, they are _____. Label ∠4 with the number of the angle to which it is congruent. G. Because ∠5 and _____ are alternate interior angles, they are _____. Label ∠5 with the number of the angle to which it is congruent. H. The three angles that lie along line b at the vertex of the triangle are ∠1, ∠4, and ∠5. Notice that these three angles lie along a line. So, m∠1 + m∠4 + m∠5 = _____ Because angles 2 and 4 are congruent and angles 3 and 5 are congruent, you can substitute m∠2 for m∠4 and m∠3 for m∠5 in the equation above. So, m∠1 + m∠2 + m∠3 = _____ This shows that the sum of the angle measures in a triangle is always _____. Reflect Question 3. Analyze Relationships How can you use the fact that m∠4 + m∠1 + m∠5 = 180° to show that m∠2 + m∠1 + m∠3 = 180°? Answer: m∠4 + m∠1 – m∠5 = 180° ..... (1) m∠2 = m∠4 since ∠2 and ∠4 are alternate interior angles m∠3 = m∠5 since ∠3 and ∠5 are alternate interior angles Therefore, we substitute m∠2 for m∠4 and m∠3 for m∠5 in equation (1) and we get: m∠2 + m∠1 + m∠3 = 180° ..... (2) Your Turn Find the missing angle measure. Question 4. Answer: From the Triangle Sum Theorem we have: m∠J + m∠L +m∠K = 1800 We substitute the given angle measures and we solve for m∠K. 71° + 56° + m∠K = 180° 127° + m∠K = 180° 127° – 127° + m∠K = 180° – 127° m∠K = 53° Angle Theorems Grade 8 Interior and Exterior Angles Question 5. Answer: To determine the answer here, we will use the following rule: α + β + γ = 180° where α, β and γ are angles in a triangle. Therefore, we know the following: m∠S = 29° m∠T = 61° m∠R =? Using the rule given in Step 1, we can compute as follows: m∠S + m∠T + m∠R = 180° 29° + 610 + m∠R = 180° m∠R = 180° – 29° – 61° m∠R = 90° Hence, the missing angle measure is: m∠R = 90° Explore Activity 3 Exterior Angles and Remote Interior Angles An interior angle of a triangle is formed by two sides of the triangle. An exterior angle is formed by one side of the triangle and the extension of an adjacent side. Each exterior angle has two remote interior angles. A remote interior angle is an interior angle that is not adjacent to the exterior angle. ∠1, ∠2, and ∠3 are interior angles. ∠4 is an exterior angle. ∠1 and ∠2 are remote interior angles to ∠4. There is a special relationship between the measure of an exterior angle and the measures of its remote interior angles. A. Extend the base of the triangle and label the exterior angle as ∠4. B. The Triangle Sum Theorem states: m∠1 + m∠2 + m∠3 = _____. C. ∠3 and ∠4 form a _____, so m∠3 + m∠4 = _____. D. Use the equations in B and c to complete the following equation: m∠1 + m∠2 + _____ = _____ + m∠4 E. Use properties of equality to simplify the equation in D: _____ The Exterior Angle Theorem states that the measure of an _____ angle is equal to the sum of the measure of its _____ angles. Reflect Question 6. Sketch a triangle and draw all of its exterior angles. How many exterior angles does a triangle have at each vertex? Answer: Angles ∠1, ∠2, and ∠3 are interior angles. ∠4 and ∠5 are exterior angles for ∠1. ∠6 and ∠7 are exterior angles for ∠2. ∠8 and ∠9 are exterior angles for ∠3. So, we have two exterior angles at each vertex. Lesson 7.2 Angle Theorems for Triangles Question 7. How many total exterior angles does a triangle have? Answer: There are two exterior angles at each of the three vertex, so we have a total of 6 exterior angles. Your Turn Question 8. Find m∠M and m∠N. m∠M = _____ m∠N = _____ Answer: Using the Exterior Angle Theorem we have: m∠M + m∠N = m∠MPQ We substitute the given angle measures and we solve the equation for y (5y + 3)°+(4y + 8)° = 146° 5y° + 3° + 4y° + 8° = 146° 9y° + 11° = 146° 9y° + 11° – 11° = 146° – 11° 9y° = 135° \(\frac{9 y^{\circ}}{9^{\circ}}=\frac{135^{\circ}}{9^{\circ}}\) y = 15 We use the value of y to find m∠M and m∠N. m∠M = (5y + 3)° = (5 • 15 + 3)° = 78° m∠M = 78° m∠N = (4y + 8)° = (4 • 15 + 8)° = 68° m∠N = 68° Texas Go Math Grade 8 Lesson 7.2 Guided Practice Answer Key Find each missing angle measure. (Explore Activity 1 and Example 1) Question 1. Answer: From the Triangle Sum Theorem we have: m∠L + m∠N + m∠M = 180° We substitute the given angle measures and we solve for m°M. 78° + 31° + m∠M = 180° 109° + m∠M = 180° 109° – 109° + m∠M = 180° – 109° m∠M = 71° Question 2. Answer: From the Triangle Sum Theorem we have: m∠Q + m∠S + m∠R = 180° We substitute the given angle measures and we solve for m∠Q. m∠Q + 24° + 126° = 180° m∠Q + 150° = 180° m∠Q + 150° – 150° = 180° – 150° m∠Q = 30° Use the Triangle Sum Theorem to find the measure of each angle in degrees. (Explore Activity 2 and Example 1) Question 3. Answer: From the Triangle Sum Theorem we have: m∠U + m∠T +m∠V = 180° We substitute the given angle measures and we solve for x (2x + 5)° + (7x + 4)° + (5x + 3)° = 180° 2x° + 5° + 7x° + 4° + 5x° + 3° = 180° 14x° + 12° = 180° 14x° + 12° – 12° = 180° – 12° 14x° = 168° \(\frac{14 x^{\circ}}{14^{\circ}}=\frac{168^{\circ}}{14^{\circ}}\) x = 12 We use the value of x to find the angles. m∠U = (2x + 5)° = (2 • 12 + 5)° = 29° m∠U = 29° m∠T = (7x + 4)° = (7 • 12 + 4)° = 88° m∠T = 88° m∠V = (5x + 3)° = (5 • 12 + 3)° = 63° m∠V = 63° Lesson 7.2 Angle Theorems for Triangles Answer Key Question 4. Answer: From the Triangle Sum Theorem we have: m∠X + m∠Y + m∠Z = 180° We substitute the given angle measures and we soLve for n. n° + (\(\frac{1}{2}\)n)° + (\(\frac{1}{2}\)n)° = 180° 2n° = 180° \(\frac{2 n^{\circ}}{2^{\circ}}=\frac{180^{\circ}}{2^{\circ}}\) n = 90 We use the value of n to find the angles. m∠X = n° = 90° m∠X = 90° m∠Y = (\(\frac{1}{2}\)n)° = (\(\frac{1}{2}\) • 90)° = 45° m∠Y = 45° m∠Z = (\(\frac{1}{2}\)n)° = (\(\frac{1}{2}\) • 90)° = 45° m∠Z = 45° Use the Exterior Angle Theorem to find the measure of each angle in degrees. (Explore Activity 3 and Example 2) Question 5. Answer: Write the Exterior Angle Theorem as it applies to this triangle. ∠C + ∠D = ∠DEF ..... (1) 4y° + (7y + 6)° = 116° (Substitute the given angle measures) ..... (2) 4y° + 7y° + 6° = 116° (Remove parentheses) ..... (3) 11y° + 6° = 116° (Simplify) ..... (4) 11y° = 116° – 6° (Take 6 from both sides) ..... (5) 11y° = 110° (Simplify) ..... (6) y° = \(\frac{110}{11}\) (Divide both sides by 11) ..... (7) y° = 10° (Simplify) ..... (8) Now, we can calculate the measure of the angles: m∠C = 4 • 10° = (4 • 10)° = 40° m∠D = (7y + 6)° (7 • 10 + 6)° = (70 + 6)° = 76° m∠DEC = 180° – 116° = 64° Question 6. Answer: Using the Exterior Angle Theorem we have: m∠M + m∠L = m∠JKM We substitute the given angle measures and we solve the equation for z. (5z – 3)° + (18z + 3)° = 161° 5z° – 3 + 18z° + 3° = 161° 23z° = 161° \(\frac{23 z^{\circ}}{23^{\circ}}=\frac{161^{\circ}}{23^{\circ}}\) z = 7 We use the value of z to find m∠M and m∠L. m∠M = (5z – 3)° = (5 • 7 – 3)° = 32° m∠M = 32° m∠L = (18z + 3)° = (18 • 7 + 3)° = 129° m∠L = 129° From the Triangle Sum Theorem we have: m∠M + m∠L + m∠LKM = 180° We substitute the given angle measures and we solve for m∠LKM 32° + 129° + m∠LKM = 180° 161° + m∠LKM = 180° 161° – 161° + m∠LKM = 180° – 161° m∠LKM = 19° Essential Question Check-In Question 7. Describe the relationships among the measures of the angles of a triangle. Answer: The sum of all, measures of the interior angles of a triangle is 180° The measure of the exterior angle of a triangle is equal to the sum of its remote interior angles. Texas Go Math Grade 8 Lesson 7.2 Independent Practice Answer Key Find the measure of each angle. Question 8. Answer: By the triangle sum theorem, sum of the angles of the triangle is 180° ∠D + ∠E + ∠F = 180° ..... (1) 98° + x° + X° = 180° (Substitute the measures of the angles) ..... (2) 98° + 2x° = 180° (Simplify) ..... (3) 2x° = 180° – 98° (Take 98° from both sides) ..... (4) 2x° = 82° (Simplify) ..... (5) x° = \(\frac{82}{2}\) (Divide both sides by 2) ..... (6) x° = 41° (Simplify) ..... (7) m∠E = 41° m∠F = 41° Angle Theorems Grade 8 Lesson 7.2 Answer Key Question 9. Answer: Angles of the triangle are m∠W = 90°, m∠V = X° and m∠T = 2x°. By the triangLe sum theorem, sum of the angles of the triangle is 180° ∠W + ∠V + ∠T = 180° ..... (1) 90° + x° + 2x° = 180° (Substitute the measures of the angles) ..... (2) 90° + 3x° = 180° (Simplify) ..... (3) 3x° = 180° – 90° (Take 90° from both sides) ..... (4) 3x° = 90° (Simplify) ..... (5) x° = \(\frac{90}{3}\) (Divide both sides by 3) ..... (6) x° = 30° (Simplify) ..... (7) m∠T = 2x° = (2 • 30)° = 60° m∠T = 60° m∠V = 30° Question 10. Answer: Angles of the triangle are m∠G = 5x°, m∠H = 4x° and m∠J = 3x°. By the triangle sum theorem, sum of the angles of the triangle is 180° ∠G + ∠H + ∠J = 180° ..... (1) 5x° + 4x° + 3x° = 180° (Substitute the measures of the angles) ..... (2) 12x° = 180° (Simplify) ..... (3) x° = \(\frac{180}{12}\) (Divide both sides by 12) ..... (4) x° = 15° (Simplify) ..... (5) m∠G = 5x° = (5 • 15)° = 75° m∠H = 4x° = (4 • 15)° = 60° m∠U = 3x° = (3 • 15)° = 45° Question 11. Answer: Write the Exterior Angle Theorem as it applies to this triangle. ∠Q + ∠P =∠QRS ..... (1) (3y + 5)° + (2y – 7)° = 153° (Substitute the given angle measures) ..... (2) 3y° + 5° + 2y° – 7° = 153° (Remove parentheses) ..... (3) 5y° – 2° = 153° (Combine like terms) ..... (4) 5y° = 153° + 2° (Add 2 to both sides) ..... (5) 5y° = 155° (Simplify) ..... (6) y° = \(\frac{155}{5}\) (Divide both sides by 5) ..... (7) y° = 31° (Simplify) ..... (8) Now, we can calculate the measure of the angles: m∠Q = (3y + 5)° = (3 • 31 + 5)° = (93 + 5)° = 98° m∠P = (2y – 7)° = (2 • 31 – 7)° = (62 – 7)° = 55° m∠QRP = 180° – 153° = 27° Question 12. Answer: Using Triangle sum theorem we have m∠A + m∠B + m∠ACB = 180° ..... (1) 78° + 58° + m∠AGB = 180° (Substitute measures of the angle into the formula) ..... (2) 136° + m∠ACB = 180° (Simplify) ..... (3) m∠ACB = 180° – 136° (Take 136° from both sides) ..... (4) m∠ACB = 44° ..... (5) Now, let’s find measure of the angle m∠DCE m∠D + m∠E + m∠DCE = 180° ..... (6) 85° + 60° + m∠DCE = 180° (Substitute measures of the angle into the formula) ..... (7) 145° + m∠DCE = 180° (Simplify) ..... (8) m∠DCE = 180° – 145° (Take 136° from both sides) ..... (9) m∠DCE = 35° ..... (10) As we can see, m∠ACB + m∠BCD + m∠DCE = 180° ..... (11) 44° + m∠BCD + 350 = 180° (Substitute measures of the angle into the formula) ..... (12) 79° + m∠BCD = 180° (Simplify) ..... (13) m∠BCD = 180° – 79° (Take 79° from both sides) ..... (14) m∠BCD = 101° ..... (15) Question 13. Answer: Angles of the triangle are m∠K = 2x°, m∠L = 3x° and m∠KML = 3x°. By the triangle sum theorem, sum of the angles of the triangle is 180°. ∠K + ∠L + ∠KML = 180° ..... (1) 2x° + 3x° + x° = 180° (Substitute the measures of the angles) ..... (2) 6x° = 180° (Simplify) ..... (3) x° = \(\frac{180}{6}\) (Divide both sides by 6) ..... (4) x° = 30° (Simplify) ..... (5) m∠K = 2x° = (2 • 30)° = 60° m∠L = 3x° = (3 • 30)° = 90° m∠KML = x° = 30° Angle m∠LMN is supplementary with m∠KML so we have m∠KML + m∠LMN = 180° ..... (6) 30° + m∠LMN = 180° (Substitute) ..... (7) m∠MN = 180° – 30° (Take 30° from both sides) ..... (8) m∠LMN = 150° (Simplify) ..... (9) m∠K = 60° m∠L = 90° m∠KML = 30° m∠LMN = 150° Question 14. Multistep The second angle in a triangle is five times as large as the first. The third angle is two-thirds as large as the first. Find the angle measures. Answer: Lets name the interior angLes of the triangle ∠1, ∠2 and ∠3. As we don’t know the measure of any angle in a triangle, Lets put ∠1 = x. Angle ∠2 is five times as large as the first, so ∠2 = 5 • ∠1 (Substitute ∠1 = x) = 5x Angle ∠3 is two-thirds as large as the first, so ∠3 = \(\frac{2}{3}\) • ∠1 (Substitute ∠1 = x) = \(\frac{2}{3}\)x By Triangle Sum Theorem Question 15. Analyze Relationships Can a triangle have two obtuse angles? Explain. Answer: An obtuse angle is a type of angle that measures greater than 90° but Less than 180°. In the question “Can a triangle have two obtuse angles?”, the answer is no If one of the interior angles of a triangle is an obtuse angle, it follows that the other two remaining interior angles are both acute angles. This is because the sum of the interior angles of a triangle is 180°. So, it is impossible to have two obtuse angles in the interior angles of a triangle. H.O.T. Focus on Higher Order Thinking Question 16. Critical Thinking Explain how you can use the Triangle Sum Theorem to find the measures of the angles of an equilateral triangle. Answer: All angles have the same measure ¡n an equilateral triangle Using the Triangle Sum Theorem, you can name all angles ∠x ∠x + ∠x + ∠x = 180 then simplify to 3(∠x) = 180 and solve for ∠x Go Math Grade 8 Lesson 7.2 Answer Key Question 17. a. Draw Conclusions Find the sum of the measures of the angles in quadrilateral ABCD. (Hint: Draw diagonal \(\overline{A C}\). How can you use the figures you have formed to find the sum?) Sum = _____ Answer: Let’s find the sum of the measures of the angles in quadrilateral ABCD. If we draw diagonal \(\overline{A C}\), we form two triangles ABC and ADC. By the Triangle Sum Theorem ∠DAC + ∠D + ∠DCA = 180° ..... (1) ∠CAB + ∠B + ∠BCA = 180° ..... (2) Notice that ∠A = ∠DAC + ∠CAB and ∠C = ∠DCA + ∠BCE So, the sum of the measures of the angles in quadrilateral ABCD is ∠A + ∠B + ∠C + ∠D = ∠DAC + ∠CAB + ∠B + ∠DCA + ∠BCA + ∠D ..... (3) Substitute = (∠DAC + ∠D + ∠DCA) + (∠CAB + ∠B + ∠BCA) ..... (4) (Combine angles triangles ABC and ADC) = 180°+ 180° ..... (5) (By Triangle Sum Theorem) = 360° ..... (6) (Simplify) b. Make a Conjecture Write a “Quadrilateral Sum Theorem.” Explain why you think it is true. Answer: “Quadrilateral. Sum Theorem:” The sum of the angle measures of a quadrilateral is 360°. According to a. every quadrilateral can be divided by a diagonal into two triangles, so the sum of angles is 180° + 180° = 360°. Question 18. Communicate Mathematical Ideas Describe two ways that an exterior angle of a triangle is related to one or more of the interior angles. Answer: An exterior angle is formed by one side of the triangle and the extension of an adjacent side Each exterior angle has two remote interior angles that are not adjacent to the exterior angle. An exterior angle is related to the interior angles of a triangle First, the relationship is that the exterior angle is supplementary to its adjacent interior angle. The sum of their angles is 180°. Another relationship is that the sum of the two remote interior angles which are not adjacent to the exterior angle is equal to the measure of the exterior angle. Post navigation The Big Ideas Math Modeling Real Life helps students in learning and engaging innovative programs. Students of Grade 8 can cover all the middle school content with the help of Big Ideas Math Grade 8 Answers. BIM Grade 8 Answer Key is prepared by mathematical experts. Hence go through the Big Ideas Math Answers 8th Grade Chapterwise and finish your homework or assignments. 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This represents subtracting -4 from both sides of the equation. Remove zero pairs. Separate each side into 2 equal groups. One x-tile is equivalent to four -1-tiles. x = -4 Question 2. 2 – 3x = -x – 8 x = _____ Answer: Explanation: Given 2 – 3x = -x – 8 Model 2-3x on the left side of the mat and -x-8 on the right side. Place one x tile to both sides. This represents subtracting from both sides of the equation. Remove 2 1 tiles from sides. This represents subtracting from both sides of the equation. Separate each side into 2 equal groups. One -x tile is equivalent to 5 – 1 tile. The solution is -x = -5 or x = 5 Solving Linear Equations Grade 8 Question 3. At Silver Gym, membership is $25 per month, and personal training sessions are $30 each. At Fit Factor, membership is $65 per month, and personal training sessions are $20 each. In one month, how many personal training sessions would Sarah have to buy to make the total cost at the two gyms equal? _____ sessions Answer: 4 sessions Explanation: At Silver Gym, membership is $25 per month, and personal training sessions are $30 each. Membership + Personal training session = 25 + 30x At Fit Factor, membership is $65 per month, and personal training sessions are $20 each. Membership + Personal training session = 65 + 20x Membership at Silver Gym = Membership at Fit Factor 25 + 30x = 65 + 20x 30x – 20x = 65 – 25 10x = 40 x = 4 Sarah would have to buy 4 sessions for the total cost at the two gyms to be equal. Question 4. Write a real-world situation that could be modeled by the equation 120 + 25x = 45x. Type below: _____ Answer: 120 + 25x = 45x Sarah offers a plan to tutor a student at $25 per her plus a one-time registration fee of $ 120. Surah offers an alternative plan to tutor a student at $45 per hour and no registration fee. 120 + 25x = 45x Question 5. Write a real-world situation that could be modeled by the equation 100 – 6x = 160 – 10x. Type below: _____ Answer: 100

2(x – 1) + 6x = 4(_____ – 1) + 2 Type below: _____ Answer: 2(x – 1) + 6x = 4(_____ – 1) + 2 2(x – 1) + 6x = 4(? – 1) + 2 2x – 2 + 6x = 4(? – 1) + 2 8x – 2 = 4(? – 1) + 2 8x – 2 = 4(2x – 1) + 2 8x – 2 = 8x – 4 + 2 8x – 2 = 8x – 2 When there are infinitely many solutions, the statement should be true Question 11. One solution of x = -1: 5x – (x – 2) = 2x – (_____) Type below: _____ Answer: Put x = -1 in the equation -5 – (-1 – 2) = -2 – blank simplifying -2 = -2 – blank add 2 on both sides 0 = blank Question 12. Infinitely many solutions: -(x – 8) + 4x = 2(_____) + x Type below: _____ Answer: -(x – 8) + 4x = 2(?) + x -x + 8 + 4x = 2(?) + x 3x + 8 = 2(?) + x 3x + 8 = 2 (x + 4) + x 3x + 8 = 2x + 8x + x 3x + 8 = 3x + 8 When there are infinitely many solutions, the statement should be true. Question 13. Persevere in Problem Solving The Dig It Project is designing two gardens that have the same perimeter. One garden is a trapezoid whose nonparallel sides are equal. The other is a quadrilateral. Two possible designs are shown at the right. a. Based on these designs, is there more than one value for x? Explain how you know this. _____ Answer: There are more than one value of x Explanation: Perimeter of the trapezoid P = 2x – 2 + x + 1 + x + x + 1 = 5x Perimeter of the quadrilateral P = 2x – 9 + x + x + 8 + x + 1 = 5x 5x = 5x There are more than one value of x Question 13. b. Why does your answer to part a make sense in this context? Type below: _____ Answer: The condition was that the two perimeters are to be equal. However, a specific number was not given, so there are an infinite number of possible perimeters Explanation: Interpretation of part a in this context The condition was that the two perimeters are to be equal. However, a specific number was not given, so there are an infinite number of possible perimeters Question 13. c. Suppose the Dig It Project wants the perimeter of each garden to be 60 meters. What is the value of x in this case? How did you find this? _____ meters Answer: 12 meters Explanation: 2x – 2 + x + 1 + x + x + 1 = 60 5x = 60 x = 60/5 x = 12 Equations with Many Solutions or No Solution – Page No. 220 Question 14. Critique Reasoning Lisa says that the indicated angles cannot have the same measure. Marita disagrees and says she can prove that they can have the same measure. Who do you agree with? Justify your answer. I agree with: _____ Answer: I agree with: Marita Explanation: 9x – 25 + x = x + 50 + 2x – 12 10x – 25 = 3x + 38 10x – 3x = 38 + 25 7x = 63 x = 63/7 x = 9 When x = 9 the angles will be same and for any other value of x, the angles will not be the same. Question 15. Represent Real-World Problems Adele opens an account with $100 and deposits $35 a month. Kent opens an account with $50 and also deposits $35 a month. Will they have the same amount in their accounts at any point? If so, in how many months and how much will be in each account? Explain. _____ Answer: Adele's amount after x months A = 100 + 35x Kent's amount after x months A = 50 + 35x 100 + 35x = 50 + 35x 100 is not equal to 50 The statement is false, the amounts in two accounts would never be equal. H.O.T. Focus on Higher Order Thinking Question 16. Communicate Mathematical Ideas Frank solved an equation and got the result x = x. Sarah solved the same equation and got 12 = 12. Frank says that one of them is incorrect because you cannot get different results for the same equation. What would you say to Frank? If both results are indeed correct, explain how this happened. Frank is: _____ Answer: Both of them can be correct as both equations give the same result i.e. there are infinitely many solutions. Frank eliminated the constant from both sides while Sarah eliminated the variable from both sides. Question 17. Critique Reasoning Matt said 2x – 7 = 2(x – 7) has infinitely many solutions. Is he correct? Justify Matt's answer or show how he is incorrect. Matt is: _____ Answer: Explanation: 2x – 7 = 2(x – 7) 2x – 7 = 2x – 14 -7 not equal to -14 The statement is false, there is no solution. Matt is incorrect. 7.1 Equations with the Variable on Both Sides – Model Quiz – Page No. 221 Solve. Question 1. 4a – 4 = 8 + a _____ Answer: a = 4 Explanation: 4a – 4 = 8 + a 4a – a = 8 + 4 3a = 12 a = 12/3 a = 4 Question 2. 4x + 5 = x + 8 _____ Answer: x = 1 Explanation: 4x + 5 = x + 8 4x – x = 8 – 5 3x = 3 x = 3/3 x = 1 Homework and Practice Solving Linear Equations 7.1 Answer Key Question 3. Hue is arranging chairs. She can form 6 rows of a given length with 3 chairs left over, or 8 rows of that same length if she gets 11 more chairs. Write and solve an equation to find how many chairs are in that row length. _____ chairs Answer: 7 chairs Explanation: Hue is arranging chairs. She can form 6 rows of a given length with 3 chairs left over, or 8 rows of that same length if she gets 11 more chairs. 6x + 3 = 8x – 11 8x – 6x = 3 + 11 2x = 14 x = 14/2 x = 7 There are 7 chairs in each row. 7.2 Equations with Rational Numbers Solve. Question 4. \(\frac{2}{3} n-\frac{2}{3}=\frac{n}{6}+\frac{4}{3}\) _____ Answer: n = 4 Explanation: \(\frac{2}{3} n-\frac{2}{3}=\frac{n}{6}+\frac{4}{3}\) The LCM is 6. 6(2/3n – 2/3) = 6(n/6 + 4/3) 6(2/3n) -6(2/3) = 6(n/6) + 6(4/3) 4n – 4 = n + 8 4n – n = 8 + 4 3n = 12 n = 12/3 n = 4 Question 5. 1.5d + 3.25 = 1 + 2.25d _____ Answer: d = 3 Explanation: 1.5d + 3.25 = 1 + 2.25d 2.25d – 1.5d = 3.25 – 1 0.75d = 2.25 d = 2.25/0.75 d = 3 Question 6. Happy Paws charges $19.00 plus $1.50 per hour to keep a dog during the day. Woof Watchers charges $14.00 plus $2.75 per hour. Write and solve an equation to find for how many hours the total cost of the services is equal. _____ hours Answer: 3.2 hours Explanation: Happy Paws charges $19.00 plus $1.50 per hour to keep a dog during the day. 1.5x + 19 Woof Watchers charges $14.00 plus $2.75 per hour. 2.75x + 15 1.5x + 19 = 2.75x + 15 2.75x – 1.5x = 19 – 15 1.25x = 4 x = 4/1.25 x = 3.2 The total cost of the services is equal after 3.2 hrs. 7.3 Equations with the Distributive Property Solve. Question 7. 14 + 5x = 3(-x + 3) – 11 _____ Answer: x = -2 Explanation: 14 + 5x = 3(-x + 3) – 11 14 + 5x = -3x + 9 – 11 14 + 5x = -3x – 2 5x + 3x = -2 – 14 8x = – 16 x = -16/8 x = -2 Question 8. \(\frac{1}{4}\)(x – 7) = 1 + 3x _____ Answer: x = -1 Explanation: \(\frac{1}{4}\)(x – 7) = 1 + 3x 4(\(\frac{1}{4}\)(x – 7)) = 4(1 + 3x) (x – 7) = 4 + 12x 12x – x = -7 – 4 11x = -11 x = -11/11 x = -1 Question 9. -5(2x – 9) = 2(x – 8) – 11 _____ Answer: x = 6 Explanation: -5(2x – 9) = 2(x – 8) – 11 -10x + 45 = 2x – 16 – 11 -10x + 45 = 2x – 27 2x + 10x = 45 + 27 12x = 72 x = 72/12 x = 6 Question 10. 3(x + 5) = 2(3x + 12) _____ Answer: x = -3 Explanation: 3(x + 5) = 2(3x + 12) 3x + 15 = 6x + 24 6x – 3x = 15 – 24 3x = -9 x = -9/3 x = -3 7.4 Equations with Many Solutions or No Solution Tell whether each equation has one, zero, or infinitely many solutions. Question 11. 5(x – 3) + 6 = 5x – 9 _____ Answer: There are infinitely many solutions Explanation: 5(x – 3) + 6 = 5x – 9 5x – 15 + 6 = 5x – 9 5x – 9 = 5x – 9 The statement is true. There are infinitely many solutions. Question 12. 5(x – 3) + 6 = 5x – 10 _____ Answer: There are no solutions Explanation: 5(x – 3) + 6 = 5x – 10 5x – 15 + 6 = 5x – 10 5x – 9 = 5x – 10 -9 not equal to -10 The statement is false. There are no solutions. Question 13. 5(x – 3) + 6 = 4x + 3 _____ Answer: There is one solution Explanation: 5(x – 3) + 6 = 4x + 3 5x – 15 + 6 = 4x + 3 5x – 9 = 4x + 3 5x – 4x = 3 + 9 x = 12 There is one solution Selected Response – Mixed Review – Page No. 222 Question 1. Two cars are traveling in the same direction. The first car is going 40 mi/h, and the second car is going 55 mi/h. The first car left 3 hours before the second car. Which equation could you solve to find how many hours it will take for the second car to catch up to the first car? Options: a. 55t + 3 = 40t b. 55t + 165 = 40t c. 40t + 3 = 55t d. 40t + 120 = 55t Answer: d. 40t + 120 = 55t Explanation: Two cars are traveling in the same direction. The first car is going 40 mi/h, and the second car is going 55 mi/h. The first car left 3 hours before the second car. 3 × 40 + 40t = 120 + 40t 55t 40t + 120 = 55t Question 2. Which linear equation is represented by the table? Options: a. y = -x + 5 b. y = 2x – 1 c. y = x + 3 d. y = -3x + 11 Answer: a. y = -x + 5 Explanation: Find the slope using m = (y2 – y1)/(x2 – x1) where (x1, y1) = (3, 2), (x2, y2) = (1, 4) Slope = (4 – 2)/(1 – 3) = -2/2 = -1 Question 3. Shawn's Rentals charges $27.50 per hour to rent a surfboard and a wetsuit. Darla's Surf Shop charges $23.25 per hour to rent a surfboard plus $17 extra for a wetsuit. For what total number of hours are the charges for Shawn's Rentals the same as the charges for Darla's Surf Shop? Options: a. 3 b. 4 c. 5 d. 6 Answer: b. 4 Explanation: Shawn's Rentals charges $27.50 per hour to rent a surfboard and a wetsuit. 27.5x Darla's Surf Shop charges $23.25 per hour to rent a surfboard plus $17 extra for a wetsuit. 23.25x + 17 23.25x + 17 = 27.5x 27.5x – 23.25x = 17 4.25x = 17 x = 17/4.25 x = 4 The charge would be equal after 4 hrs Question 4. Which of the following is irrational? Options: a. -8 b. 4.63 c. \(\sqrt { x } \) d. \(\frac{1}{3}\) Answer: c. \(\sqrt { x } \) Explanation: \(\sqrt { x } \) is irrational Question 5. Greg and Jane left a 15% tip after dinner. The amount of the tip was $9. Greg's dinner cost $24. Which equation can you use to find x, the cost of Jane's dinner? Options: a. 0.15x + 24 = 9 b. 0.15(x + 24) = 9 c. 15(x + 24) = 9 d. 0.15x = 24 + 9 Answer: b. 0.15(x + 24) = 9 Explanation: Let x be the cost of Jane's dinner. The amount of tip is the 15% of the total cost of dinner. 0.15(x + 24) = 9 Question 6. For the equation 3(2x − 5) = 6x + k, which value of k will create an equation with infinitely many solutions? Options: a. 15 b. -5 c. 5 d. -15 Answer: d. -15 Explanation: 3(2x – 5) = 6x + k 6x – 15 = 6x + k 6x – 15 = 6x – 15 The statement is true. k = -15 Question 7. Which of the following is equivalent to 2−4? Options: a. \(\frac{1}{16}\) b. \(\frac{1}{8}\) c. -2 d. -16 Answer: a. \(\frac{1}{16}\) Explanation: 2−4 1/24 1/16 Mini-Task Question 8. Use the figures below for parts a and b. a. Both figures have the same perimeter. Solve for x. _____ Answer: x=12 Explanation: 4x+10=3x+22 4x – 3x = 22 – 10 x = 12 Answer: x=12 Question 8. b. What is the perimeter of each figure? _____ Answer: Both are 58 Explanation: x + x + 5 + x + x + 5 12 + 12 + 5 + 12 + 12 + 5 58 x + 7 + x + 4 + x + 11 12 + 7 + 12 + 4 + 12 + 11 58 Conclusion: Go Math Grade 8 Answer Key Chapter 7 Solving Linear Equations are available along with the all practice questions here. 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