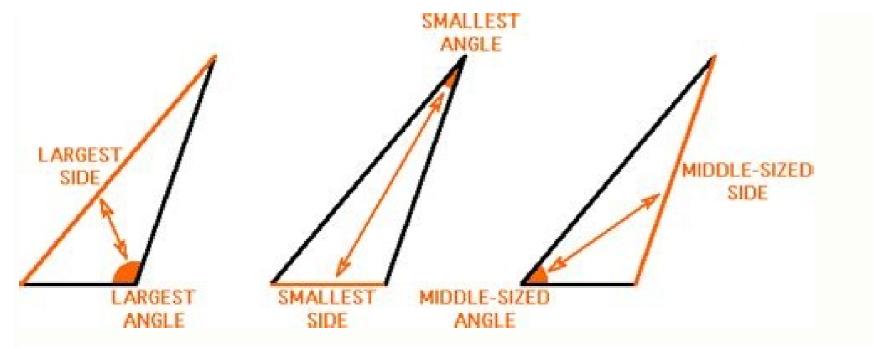
Practice a angle relationships in triangles answers





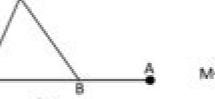
4-3 Angle Relationships in Triangles

Objectives: G.CO.10: Prove theorems about triangles.

For the board: You will be able to find the measures of interior and exterior angles of triangles and apply these theorems.

Bell Work 4.3:

 Find the m<DBA, if m<DBC = 30*, m<C = 70*, and m<D = 80*.
What is the complement of an angle



with measure 17"? 3. How many lines can be drawn through N parallel to MP?

Anticipatory Set:

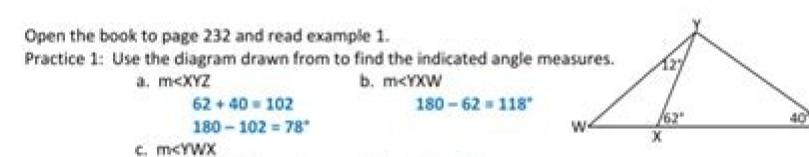
Experiment: Given a triangle, tear off the 3 corners. Arrange them so that they are adjacent angles. What do you notice about the sum of these three angles? They make a straight angle and thus add to equal 180°

Instruction:

The Triangle Sum Theorem

The sum of the measures of the interior angles of a triangle is 180°.

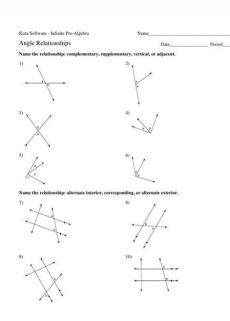
Given: Triangle ABC Conclusion: m<1 + m<2 + m<3 = 180*

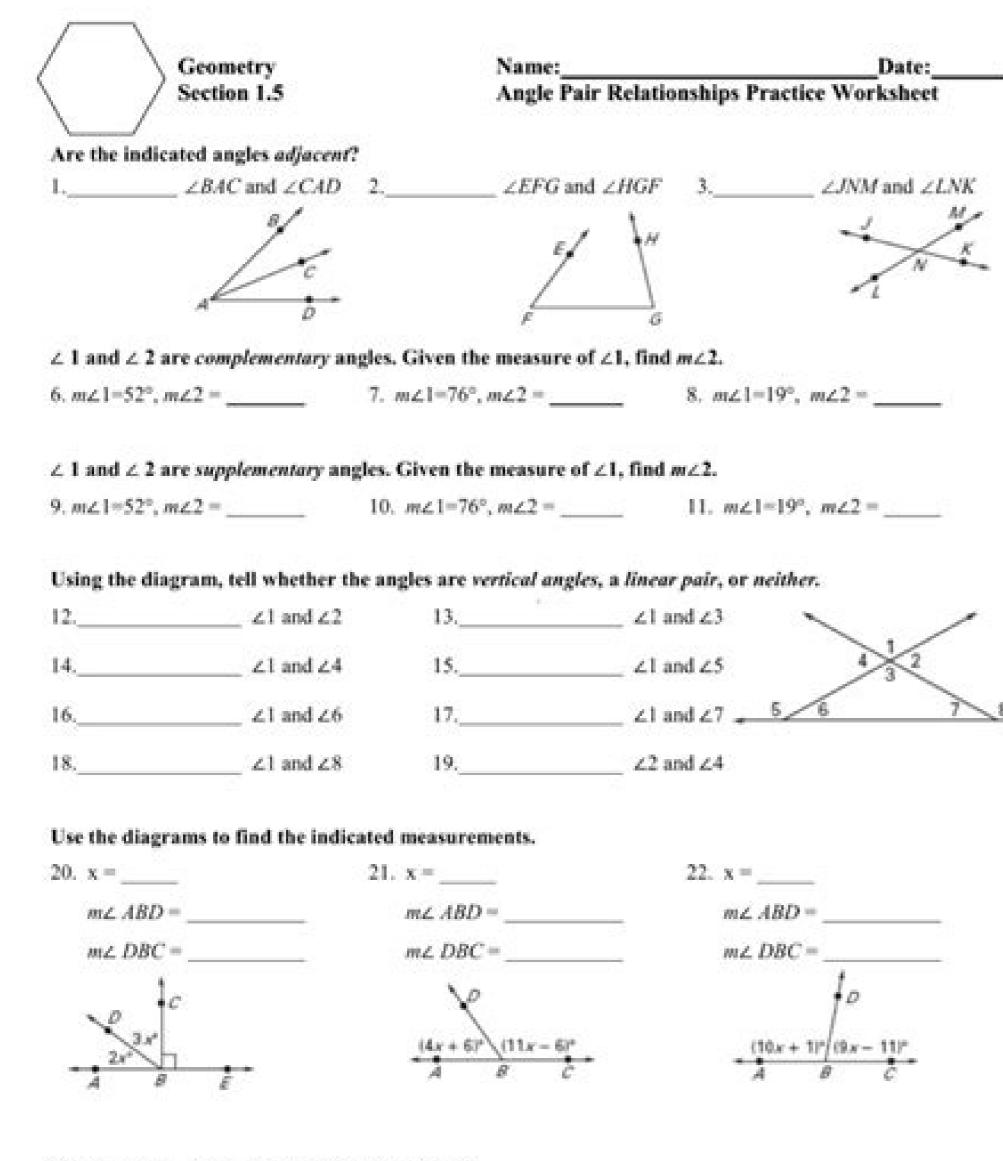




Practice: Find the measure of each angle of $\triangle ABC$. 3x + 2x + 17 + 33 = 180 5x + 50 = 180 5x = 130 x = 26 $m < A = 2(26) + 17 = 69^{\circ}$ $m < B = 3(26) = 78^{\circ}$

 $A^{/(2x+17)^*}$ 33."





Given: $m \angle A = (4x - 2)^\circ$ and $m \angle B = (11x + 17)^\circ$

24. Find x if the angles are supplementary. Find x if the angles are complementary.

Practice A Practice B Congruent Triangles Congruent Triangles In basedual, home plans is a pertagon. Pentagon ARCM is a diagram of a regulation home plan. The basedual rules are very specific about Fill in the Marida to complete each definition Corresponding anywe and corresponding odes are in the exact dimensions of this periodom so that every home plate is: the same provident in party one with an argust multilant of sole orgnant its every other home plain. It pertayon PORST is another 1 Two polygons are ______ Comprised polygona if and enty if then home plate, identify each congruent corresponding part. teleng angles and sides are compound 7.0 1. 134 LD. The ; Party to the ligure of 3.0H and 3.3K2 for Exercises 3 and 4. 1. 70 - AB 4. 23 - 60 6-150 CT. I. Name the Trees parts of corresponding other GH = JK, HI = KL; GI = JL. Given: 2.007 = 2.1395 Field each value 407 4. Name the trees part of consequenting angles 7.0611 ----a. ar. _____37.3 LOWERLANDLKEIWEL Find the value of all 8. Write a two column proof. times of a conversion of the col-(W = WV + XY = 2Y, UX = HZ)Printer (12/19/10 12/19/2) Proof. Petalible antiver. E Given $\Delta D d r = \Delta D d v$ x = 20 E Given $\Delta A d c = \Delta P d d v$ x = 1.1Statements Peasens 7. Elsevine Boo a kite. When the kite is fiving well, the tail states out straight $1. \angle U = \angle UWV = \angle ZXY = \angle Z$ 1. Cives so the indicated angles at 17 are congruent. Use the phrases then the word $2. \angle V = \angle Y$ 2: Third & Then loans to constants this last distance good. 3. UV = WV, XY = ZYGiven: c.B.and c.B.ane right angles. 3. Great DWY - - OVER DY - DV. NY - TH David A. They 4.403 = WZGiven. Press 2.879 - 2279 5. UX = WZ, WX = WX. 5. Def. of in seps. -577×1007 Referive Prop. st = 6. UX = UW + WX, WZ = XZ + WX - 8. Sep. Add. Pest. Statements. $C_{\rm c} = UV, W = UV$ 7. UW + WX = XZ + WXSaturi. $\delta : TY = TY$ Folia: Prop. of 4.699 - 328. Subh, Prop. of dive: $9. \triangle UVW = \triangle XYZ$ Out, all or Au 48.68×60 6.50 L to The to devision of the second second second second second

Lesson 4-3 practice a angle relationships in triangles answers.

Answer: \angle VWZ Explanation: \angle UVY and \angle VWZ are a pair of corresponding angles. When two lines are crossed by Transversal the angles in matching corners are called corresponding angles. Question 2. \angle WVY and \angle VWT are Answer: ∠WVY and ∠VWT are alternate interior angles. Alternate Interior Angles are a pair of angles. angles on the inner side of each of those two lines but on opposite sides of the transversal. Explanation: ∠WVY and ∠VWT are alternate interior Angles are a pair of angles on the inner side of each of those two lines but on opposite sides of the transversal. Explanation: ∠WVY and ∠VWT are alternate interior Angles are a pair of angles. ° Answer: 80^o Explanation: ∠SVW and $\angle VWT$ are same sider interior angles. Therefore, $m \angle SVW + m \angle VWT = 180^{\circ} 4x^{\circ} + 5x^{\circ} = 180^{\circ} 9x = 180^{\circ} 9x = 180/9 x = 20 m \angle SVW = 4x^{\circ} = (4.20)^{\circ} = 80^{\circ}$ Question 4. Find $m \angle VWT$. ^o Answer: 100° Explanation: \angle SVW and \angle VWT are same sider interior angles. Therefore, m \angle SVW + m \angle VWT = 180° $4x^{\circ} + 5x^{\circ} = 180^{\circ}$ 9x = 180° x = 180/9 x = $20 \text{ m} \angle \text{VWT} = 5x^{\circ} = (5.20)^{\circ} = 100^{\circ}$ Question 5. Vocabulary When two parallel lines are cut by a transversal, angles are supplementary. Answer: If two parallel lines are cut by a transversal, then the pairs of alternate exterior angles are congruent. If two parallel lines are cut by a transversal, then the pairs of consecutive interior angles are supplementary. ESSENTIAL QUESTION CHECK-IN Question 6. What can you conclude about the interior angles formed when two parallel lines are cut by a transversal? Type below: Answer: Alternate interior angles are congruent; same-side interior angles are supplementary. Explanation: When two parallel lines are cut by a transversal, the interior angles will be the angles between the two parallel lines. Alternate interior angles will be on opposite sides of the transversal; the measures of these angles will be supplementary, adding up to 180 degrees. Answer: $\angle 1$ and $\angle 5 \angle 3$ and $\angle 7 \angle 2$ and $\angle 6 \angle 4$ and $\angle 8$ Explanation: Corresponding angles are $\angle 1$ and $\angle 5 \angle 3$ and $\angle 7 \angle 2$ and $\angle 6 \angle 4$ and $\angle 8$ Question 11.1 Independent Practice - Parallel Lines Cut by a Transversal - Page No. 351 Vocabulary Use the figure for Exercises 7-10. Question 7. Name all pairs of corresponding angles. Type below: Answer: alternate interior angles Explanation: $\angle 3$ and $\angle 6$ are alternate interior angles. Alternate 8. Name both pairs of alternate exterior angles. Type below: Answer: $\angle 1$ and $\angle 8 \angle 2$ and $\angle 7$ Explanation: Alternate exterior angles $\angle 1$ and $\angle 8 \angle 2$ and $\angle 7$ Question 9. Name the relationship between $\angle 3$ and $\angle 6$. Type below: Interior Angles are a pair of angles on the inner side of each of those two lines but on opposite sides of the transversal. Question 10. Name the relationship between $\angle 4$ and $\angle 6$. Type below: Answer: same-side interior angles Explanation: $\angle 4$ and $\angle 6$ are same-side interior angles. Find each angle measure. Question 11. m $\angle AGE$ when $m \angle FHD = 30^{\circ}$ ° Answer: $m \angle AGE = 30^{\circ}$ Explanation: $\angle AGE$ and $\angle FHD$ are alternate exterior angles. Therefore, $m \angle AGE = m \angle FHD = 30^{\circ}$ m $\angle AGE = 30^{\circ}$ Question 12. $m \angle AGH$ when $m \angle CHF = 150^{\circ}$ ° Answer: 150° Explanation: $\angle AGH$ and $\angle CHF$ are corresponding angles. Therefore, $m \angle AGH = m \angle CHF = 150^\circ m \angle AGH = 150^\circ$ ° Answer: 110° Explanation: \angle CHF and \angle BGE are alternate exterior angles. Therefore, m \angle CHF = m \angle BGE = 110° m \angle CHF = 110° Question 14. m \angle CHG when m \angle HGA = 120° ° Answer: $m \angle CHG = 60^{\circ}$ Explanation: $\angle CHF$ and $\angle HGA$ are same-side interior angles. $m \angle CHG + m \angle HGA =$ Question 13. m \angle CHF when m \angle BGE = 110° $180^{\circ} \text{ m} \angle \text{CHG} + 120^{\circ} = 180^{\circ} \text{ m} \angle \text{CHG} = 180 - 120 = 60 \text{ m} \angle \text{CHG} = 60^{\circ} \text{ Question 15. m} \angle \text{BGH}$ ° Answer: 78° Explanation: $\angle BGH$ and $\angle GHD$ are same-side interior angles. So, $\angle BGH + \angle GHD = 180^\circ 3x + (2x + 50)^\circ = 180^\circ 5x = 180^\circ 5x = 180^\circ 5x = 130/5 = 26^\circ \angle BGH = 3x^\circ = 3 \times 26^\circ = 78^\circ \angle GHD = (2x + 50) = 102^\circ$ ° Answer: 102° Explanation: $\angle BGH$ and $\angle GHD$ are same-side interior angles. So, $\angle BGH + \angle GHD = 180^{\circ}$ 3x + $(2x + 50)^{\circ} = 180^{\circ}$ 5x = $130/5 = 26^{\circ} \angle BGH = 3x^{\circ} = 3 \times 26^{\circ} = 78^{\circ} \angle GHD = (2x + 50) + = (2 \times 26 + 50) = 102^{\circ}$ Question 17. The Cross Country Bike Trail follows a straight line where it Ouestion 16. $m \angle GHD$ crosses 350th and 360th Streets. The two streets are parallel to each other. What is the measure of the larger angle formed at the intersection of the bike trail and 360th Street? Explain. ° Answer: The larger angle formed at the intersection of the bike trail and 360th Street is 132º Explanation: The larger angle formed at the intersection of the bike trail and 360th Street is the angle 5 in our schema. 25 and 23 are same-side interior angles. Therefore, $m25 + 48^{\circ} = 130^{\circ} m25 = 132^{\circ}$ Question 18. Critical Thinking How many different angles would be formed by a transversal intersecting three parallel lines? How many different angle measures would there be? different angles different angle measures Answer: 12 different angles 2 different angles formed by a transversal intersecting three parallel lines. There are 2 different angle measures: $m \angle 1 = m \angle 4 = m \angle 5 = m \angle 8 = m \angle 9 = m \angle 12 m \angle 2 = m \angle 3 = m \angle 6 = m \angle 7 = m \angle 7 = m \angle 12 m \angle$ $m \neq 10 = m \neq 11$ Parallel Lines Cut by a Transversal - Page No. 352 Question 19. Communicate Mathematical Ideas In the diagram at the right, suppose $m \neq 6 = 125^{\circ}$. Explain how to find the measures of each of the other seven numbered angles. Type below: Answer: $m \neq 2 = m \neq 6 = 125^{\circ}$ because $\neq 2$ and $\neq 6$ are corresponding angles. $m \neq 3 =$ $m \neq 2 = 125^{\circ}$ because $\neq 3$ and $\neq 2$ are vertical angles. $m \neq 7 = m \neq 3 = 125^{\circ}$ because $\neq 7$ and $\neq 3$ are corresponding angles. $\neq 4$ and $\neq 6$ are same-side interior angles. $m \neq 4 = 55^{\circ}$ m $\neq 4 = 55^{\circ}$ m $\neq 4 = 55^{\circ}$ m $\neq 4 = 55^{\circ}$ because $\neq 8$ and $\neq 4 = 55^{\circ}$ because $\neq 8$ and $\neq 4 = 55^{\circ}$ because $\neq 1$ and $\neq 4 = 55^{\circ}$ because $\neq 1$ and $\neq 4 = 55^{\circ}$ m $\neq 4 = 180^{\circ} - 125^{\circ}$ m $\neq 4 = 55^{\circ}$ m $\neq 4 = 55^{\circ}$ because $\neq 8$ and $\neq 4 = 55^{\circ}$ because $\neq 1$ and $\neq 1$ because $\neq 1$ and $\neq 1$ because $\neq 1$ and $\neq 1$ because $\neq 1$ because $\neq 1$ because $\neq 1$ and $\neq 1$ because $\neq 1$ because are vertical angles. $m \ne 5 = m \ne 1 = 55^{\circ}$ because $\ne 5$ and $\ne 1 = 55^{\circ}$ because $\ne 5$ and $\ne 1$ are corresponding angles. FOCUS ON HIGHER ORDER THINKING Question 20. Draw Conclusions In a diagram showing two parallel lines cut by a transversal, the measures of two same-side interior angles are both given as $3x^{\circ}$. Without writing and solving an equation, can you determine the measures of both angles? Explain. Then write and solve an equation to find the measures. Answer: $m \angle 1$ and $m \angle 2$ are same-side interior angles is 180° Therefore, $m \angle 1 + m \angle 2 = 180^{\circ}$ 3x + 3x = 180/6 = 30 $m \angle 1 = m \angle 2 = 3x = 3(30) = 90^{\circ}$ Question 21. Make a Conjecture Draw two parallel lines and a transversal. Choose one of the eight angles that are formed. How many of the other seven angles are congruent to the angle you selected? How many of the other seven angles are supplementary to your angle? Will your answer change if you select a different angle? Type below: Answer: We have to select $\angle a$ form of eight angles that are formed. There are two other Answer: This is not enough information to conclude that the diagram shows two parallel lines cut by a transversal. Because 2 and 2 are same-side interior angles. But 2 and 2 are not congruent with each other. information to conclude that the diagram shows two parallel lines cut by a transversal. Is he correct? Justify your answer. And $\angle 6$ and $\angle 7$ are same-side interior angles. But $\angle 1$ and $\angle 4$ are not congruent with each other. Guided Practice - Angle Theorems for Triangles - Page No. 358 Find each missing angle measure. Question 1. m $\angle M = 180^{\circ} 78^{\circ} + 31^{\circ} + m \angle M = 180^{\circ} 78^{\circ} + 31^{\circ} + m \angle M = 180^{\circ} 78^{\circ} + 31^{\circ} + m \angle M = 180^{\circ} 78^{\circ} + 31^{\circ} + m \angle M = 180^{\circ}$ ° Answer: $m \angle Q = 30^{\circ}$ Explanation: From the Triangle Sum Theorem, $m \angle Q + m \angle S + m \angle R = 180^{\circ} m \angle Q + 126^{\circ} = 180^{\circ} m \angle Q = 180^{\circ} m \angle Q = 30^{\circ}$ Use the Triangle Sum Theorem to find the measure of each angle in degrees. Question 3. $109^{\circ} + m \angle M = 180^{\circ} m \angle M = 180^{\circ} - 109^{\circ} m \angle M = 71^{\circ}$ Ouestion 2. $m \angle O = 100^{\circ} m \angle M = 100$ ^o Answer: $m \angle T = 88^\circ m \angle V = 63^\circ m \angle U = 29^\circ$ Explanation: From the Triangle Sum Theorem, $m \angle U + m \angle T + m \angle V = 180^\circ (2x + 5)^\circ + (7x + 4)^\circ + (5x + 3)^\circ = 180^\circ 2x^\circ + 5^\circ + 7x^\circ + 4^\circ + 5x^\circ + 3^\circ = 180^\circ 14x^\circ + 12^\circ = 168^\circ x = 168/14 = 12$ Substitute x value to find the angles $m \angle U = 180^\circ (2x + 5)^\circ + (7x + 4)^\circ + (5x + 3)^\circ = 180^\circ 2x^\circ + 5^\circ + 7x^\circ + 4^\circ + 5x^\circ + 3^\circ = 180^\circ 14x^\circ + 12^\circ = 168^\circ x = 168/14 = 12$ Substitute x value to find the angles $m \angle U = 180^\circ (2x + 5)^\circ + (7x + 4)^\circ + (7x + 4)$ m∠T = ° m∠U = ° m∠V = $(2x + 5)^{\circ} = ((2 \cdot 12) + 5)^{\circ} = 29^{\circ} \text{ m} \angle U = 63^{\circ} \text{ m} \angle V = 63^{\circ} \text{ m}$ + $(1/2 \cdot n)^{\circ} = 180^{\circ} 2n^{\circ} = 180^{\circ} n = 90$ Substitute n values to find the angles $m \angle X = n^{\circ} = 90^{\circ} m \angle X = 90^{\circ} m \angle Y = (1/2 \cdot n)^{\circ} = (1/$ ° m∠D = ° Answer: $m \angle C = 40^{\circ}$ $m \angle D = 76^{\circ}$ Explanation: Given $m \angle C = 4y^{\circ}$, $m \angle D = (7y + 6)^{\circ}$, $m \angle E = 116^{\circ}$ By using exterior angle theorem, $\angle DEC + \angle DEF = 180^{\circ} \angle E = \angle DEC = 180^{\circ} - 116^{\circ} = 64^{\circ}$ The sum of the angles of a traingle = $180^{\circ} \angle C + \angle D + \angle E = 180^{\circ} 4y^{\circ} + (7y + 6)^{\circ} + 64^{\circ} = 180^{\circ} 11y^{\circ} + 70^{\circ} = 180^{\circ} - 70^{\circ} = 110^{\circ}$ $y = 10 \angle C = 4y^{\circ} = 4y^{\circ} = 4y^{\circ} = 10^{\circ} \angle E = 20^{\circ} + 20^{\circ$ $10 = 40^{\circ} \angle D = (7v + 6)^{\circ} = ((7 \cdot 10) + 6)^{\circ} = (70 + 6)^{\circ} = 76^{\circ}$ Ouestion 6. m $\angle L =$ ° m∠M = ° Answer: $m \angle L = 129^{\circ} m \angle M = 32^{\circ}$ Explanation: Given that $m \angle M = (5z - 3)^{\circ}, m \angle L = (18z + 3)^{\circ}, m \angle JKM = 161^{\circ}$ From the Exterior Angle Theorem, $m \angle M + m \angle L = m \angle JKM (5z - 3)^{\circ} + (18z + 3)^{\circ} = 161^{\circ} 5z^{\circ} - 3^{\circ} + 18z^{\circ} + 3^{\circ} = 161^{\circ} 23z^{\circ} =$ $161^\circ z = 161/23 = 7$ Substitute z values to find the angles $m \angle M = (5z - 3)^\circ = ((5 \cdot 7) - 3)^\circ = 32^\circ m \angle L = (18z + 3)^\circ = ((18z + 3)^\circ = (18z + 3)^\circ$ Answer: The sum of all measures of the interior angles of a triangle is 180°. The measure of an exterior angles, 11.2 Independent Practice - Angle Theorems for Triangles - Page No. 359 Find the measure of each among the measures of the angles of a triangle. Type below: ° Answer: $m \neq E = 41^{\circ} m \neq F = 41^{\circ} Explanation$; $m \neq E = x^{\circ}$, $m \neq D = 98^{\circ}$ From the Triangle Sum Theorem, sum of the angles of the triangle is $180^{\circ} m \neq F = 180^{\circ} 2x + 98 = 180^{\circ} 2x = 82^{\circ} x = 41^{\circ}$ So, $m \neq E = 41^{\circ} m \neq F = 41^{\circ}$ Ouestion 9. $m \neq T = 180^{\circ} 2x + 98 = 180^{\circ} 2x = 82^{\circ} x = 41^{\circ}$ So, $m \neq E = 41^{\circ} m \neq F = 41^{\circ}$ Ouestion 9. $m \neq T = 180^{\circ} 2x = 82^{\circ} x = 41^{\circ}$ So, $m \neq E = 41^{\circ} m \neq F = 41^{\circ}$ Ouestion 9. $m \neq T = 180^{\circ} 2x = 82^{\circ} x = 41^{\circ}$ So, $m \neq E = 41^{\circ} m \neq F = 41^{\circ}$ Ouestion 9. $m \neq T = 180^{\circ} 2x = 82^{\circ} x = 41^{\circ}$ So, $m \neq E = 41^{\circ} m \neq F = 41^{\circ}$ Ouestion 9. $m \neq T = 180^{\circ} 2x = 82^{\circ} x = 41^{\circ}$ So, $m \neq E = 41^{\circ} m \neq F = 41^{\circ}$ Ouestion 9. $m \neq T = 180^{\circ} 2x = 82^{\circ} x = 41^{\circ}$ So, $m \neq E = 41^{\circ} m \neq F = 41^{\circ}$ Ouestion 9. $m \neq T = 180^{\circ} 2x = 82^{\circ} x = 41^{\circ}$ So, $m \neq E = 41^{\circ} m \neq F = 41^{\circ}$ Ouestion 9. $m \neq T = 180^{\circ} 2x = 82^{\circ} x = 41^{\circ}$ So, $m \neq E = 41^{\circ} m \neq F = 41^{\circ}$ Ouestion 9. $m \neq T = 180^{\circ} 2x = 82^{\circ} x = 41^{\circ}$ So, $m \neq E = 41^{\circ} m \neq F = 41^{\circ}$ Ouestion 9. $m \neq T = 180^{\circ} 2x = 82^{\circ} x = 41^{\circ}$ So, $m \neq E = 41^{\circ} m \neq F = 41^{\circ}$ Ouestion 9. $m \neq T = 180^{\circ} 2x = 82^{\circ} x = 41^{\circ}$ So, $m \neq E = 41^{\circ} m \neq F = 41^{\circ}$ Ouestion 9. $m \neq T = 180^{\circ} 2x = 82^{\circ} x = 41^{\circ}$ So, $m \neq E = 41^{\circ} m \neq F = 41^{\circ}$ Ouestion 9. $m \neq T = 180^{\circ} 2x = 82^{\circ} x = 41^{\circ}$ Ouestion 9. $m \neq T = 180^{\circ} 2x = 82^{\circ} x = 41^{\circ}$ Ouestion 9. $m \neq T = 180^{\circ} 2x =$ angle. Question 8. $m \angle E =$ ° m∠F = ° Answer: $m \angle T = 60^{\circ} m \angle V = 30^{\circ}$ Explanation: $m \angle W = 90^{\circ}$, $m \angle T = 2x^{\circ}$, $m \angle V = x^{\circ}$ From the Triangle Sum Theorem, sum of the angles of the triangle is $180^{\circ} m \angle T + m \angle V + m \angle W = 180^{\circ} 3x = 90^{\circ} x = 30^{\circ}$ So, $m \angle T = 2x^{\circ} = 2$. $30^{\circ} = 60^{\circ} m \angle V = x^{\circ} = 30^{\circ}$ Question 10. $m \angle G = 10^{\circ} m \angle V = 180^{\circ} 3x = 90^{\circ} x = 30^{\circ}$ So, $m \angle T = 2x^{\circ} = 2$. $30^{\circ} = 60^{\circ} m \angle V = x^{\circ} = 30^{\circ}$ Question 10. $m \angle G = 10^{\circ} m \angle V = 1$ ° m∠J = m∠V = ° m∠H = ^o Answer: $m \angle G = 75^{\circ} m \angle H = 60^{\circ} m \angle I = 45^{\circ}$ Explanation: $m \angle G = 5x^{\circ}, m \angle H = 4x^{\circ}, m \angle I = 3x^{\circ}$ From the Triangle Sum Theorem, sum of the angles of the triangle is $180^{\circ} m \angle G = 5x^{\circ} = 5$. $15^{\circ} = 75^{\circ} m \angle H = 4x^{\circ} = 4$. $15^{\circ} = 60^{\circ} m \angle I = 3x^{\circ} = 3$. $15^{\circ} = 45^{\circ}$ Ouestion 11. $m \angle O$ ° Answer: $m \angle Q = 98^\circ m \angle P = 55^\circ m \angle QRP = 27^\circ$ Explanation: Given that $m \angle Q = (3y + 5)^\circ$, $m \angle P = (2y - 7)^\circ$, $m \angle QRS = 153^\circ$ From the exterior angle Theorem, $\angle QRS + \angle QRP = 180^\circ n \angle R = m \angle QRP = 180^\circ - 153^\circ = 27^\circ$ From the Triangle Sum Theorem, the sum of the angles ° m∠QRP = ° m∠P = of the triangle is 180° m $\angle P + m \angle Q + m \angle R = 180°$ (3y + 5)° + (2y - 7)° + 27° = 180° 5y° + 25 = 180° 5y° = 155° y = 31° m $\angle Q = (3y + 5)° = ((3 \cdot 31°) + 5)° = 98° m \angle P = (2y - 7)° = ((2 \cdot 31° - 7)° = 55° m \angle QRP = 27° Question 12. m \angle ACB = 100° M \angle P + m \angle Q = (3y + 5)° = (3 \cdot 31°) + 5)° = 98° m \angle P = (2y - 7)° = ((2 \cdot 31° - 7)° = 55° m \angle QRP = 27° Question 12. m \angle ACB = 100° M \angle P + m \angle Q = (3y + 5)° = (3 \cdot 31°) + 5)° = 98° m \angle P = (2y - 7)° = (3 \cdot 31°) + 50° = 98° m \angle P$ ° m∠DCE = ° m∠BCD = ° Answer: $m \angle ACB = 44^{\circ} m \angle DCE = 35^{\circ} m \angle BCD = 101^{\circ}$ Explanation: In traingle ABC. $m \angle A = 78^\circ$, $m \angle A = 78^\circ$, angles of the triangle is $180^\circ \text{m}/\text{D} + \text{m}/\text{E} + \text{m}/\text{CDE} = 180^\circ 85^\circ + 60^\circ + \text{m}/\text{CDE} = 180^\circ \text{m}/\text{CDE} = 35^\circ \text{From the Exterior Angle Theorem, } \text{m}/\text{ACB} + \text{m}/\text{CDE} = 180^\circ 44^\circ + 35^\circ + \text{m}/\text{BCD} = 180^\circ \text{m}/\text{BCD$ ° m∠KML = °m∠L = ° m∠LMN ^o Answer: Explanation: $m \angle K = 2x^\circ$, $m \angle L = 3x^\circ$, $m \angle KML = x^\circ$ So, From the Triangle Sum Theorem, the sum of the angles of the triangle is 180°. $m \angle K + m \angle L + m \angle KML = 180^\circ 2x^\circ + 3x^\circ + x^\circ = 180^\circ 6x^\circ = 180^\circ x = 30^\circ \angle L = 3x = 3$. $30^\circ = 90^\circ \angle K = 2x = 2$. $30^\circ = 60^\circ$ From the Exterior Angle Theorem, $\angle KML + \angle LMN = 180^\circ 2x^\circ + 3x^\circ + x^\circ = 180^\circ 6x^\circ = 180^\circ x = 30^\circ \angle KML = x = 30^\circ \angle L = 3x = 3$. $30^\circ = 90^\circ \angle K = 2x = 2$. $30^\circ = 60^\circ$ From the Exterior Angle Theorem, $\angle KML + \angle LMN = 180^\circ 2x^\circ + 3x^\circ + x^\circ = 180^\circ 6x^\circ = 180^\circ x = 30^\circ \angle L = 3x = 3$. $30^\circ = 90^\circ \angle K = 2x = 2$. $30^\circ = 60^\circ$ From the Exterior Angle Theorem, $\angle KML + \angle LMN = 180^\circ 2x^\circ + 3x^\circ + x^\circ = 180^\circ 6x^\circ = 180^\circ x = 30^\circ \angle L = 3x = 3$. $30^\circ = 90^\circ \angle K = 2x = 2$. $30^\circ = 60^\circ$ From the Exterior Angle Theorem, $\angle KML + \angle LMN = 180^\circ 2x^\circ + 3x^\circ + x^\circ = 180^\circ 6x^\circ = 180^\circ x = 30^\circ \angle L = 3x = 3$. $30^\circ = 90^\circ \angle K = 2x = 2$. $30^\circ = 60^\circ$ From the Exterior Angle Theorem, $\angle KML + \angle LMN = 180^\circ 2x^\circ + 3x^\circ + x^\circ = 180^\circ 6x^\circ = 180^\circ x = 30^\circ \angle L = 3x = 3$. $30^\circ = 90^\circ \angle K = 2x = 2$. $30^\circ = 60^\circ$ From the Exterior Angle Theorem, $\angle KML + \angle LMN = 180^\circ 2x^\circ + 3x^\circ + 3x^\circ + 3x^\circ = 180^\circ 2x^\circ + 3x^\circ + 3x^\circ = 180^\circ 2x^\circ + 3x^\circ + 3x^\circ = 180^\circ 2x^\circ + 3x^\circ = 180^\circ 2x^\circ = 180^\circ$ $180^{\circ} \angle LMN = 180^{\circ} - 30^{\circ} = 150^{\circ}$ Ouestion 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. The measure of the first angle: ° Answer: The measure of [°] The measure of the second angle: ° The measure of the third angle: the first angle: 27° The measure of the second angle: 135° The measure of the third angle: 18° Explanation: Let us name the angles of a triangle as $\angle 1$, $\angle 2$, $\angle 3$. Consider $\angle 1$ as x. $\angle 2$ is 5 times as large as the first. $\angle 2 = 5x$ Also, $\angle 3 = 2/3$. x So, From the Triangle Sum Theorem, the sum of the angles of the triangle is $\overline{180^\circ$. x+} 5x + (2/3 . x) = 180^\circ 20x = 540° x = 27° So, $\angle 1 = x = 27°$ So, $\angle 1 = x = 27°$ $\angle 2 = 5x = 5$. 27° = 135° $\angle 3 = 2/3$. x = 2/3. xAnswer No; a triangle can NOT have two obtuse angles Explanation: The measure of an obtuse angle is greater than 90°. Two obtuse angles and the third angle would have a sum greater than 180° FOCUS ON HIGHER ORDER THINKING Question 16. Critical Thinking Explanation: The measure of the angles angle is greater than 90°. an equilateral triangle. Type below: Answer: All angles have the same measure in an equilateral triangle Explanation: Using the Triangle Sum Theorem, $\angle x + \angle x = 180^{\circ} \angle x = 60^{\circ}$ All angles have the same measure in an equilateral triangle Question 17. a. Draw Conclusions Find the sum of the measures of the angles in Answer: The sum of the angle measures of a guadrilateral is 360° Any guadrilateral can be divided into two triangles (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. Type below: Answer: An exterior angle and it's an adjacent interior angle equal 180° An exterior angle equals the sum of the two remote interior angles. Guided Practice - Angle-Angle Similarity - Page No. 366 Question 1. Explain whether the triangles are similar. Label the angle measures in the figure. Type below: △ABC has angle measures and $\triangle DEF$ has angle measures . Because in one triangle are congruent to in the other triangle, the triangles are . Answer: ABC has angle measures 40°, 30°, and 109° and DEF has angle measures 41°, 109°, and 30°. Because 2∠s in one triangles similar. Question 2. A flagpole casts a shadow 23.5 feet long. At the same time of day, Mrs. Gilbert, who is 5.5 feet tall, casts a shadow that is 7.5 feet long. How tall in feet is the flagpole? Round your answer to the nearest tenth. ft Answer: 17.2 ft Explanation: In similar triangles, corresponding side lengths are proportional. 5.5/7.5 = h/23.5 h (7.5) = 129.25 h = 129.___, ∆ABC and∆DEC are two parallel lines as shown. Explain whether $\triangle ABC$ and $\triangle DEC$ are similar. $\angle BAC$ and $\angle EDC$ are . ∠ABC and∠DEC are since they are Answer: $\angle BAC$ and $\angle EDC$ are congruent since they are alt. interior $\angle s \angle ABC$ and $\angle DEC$ since they are . By . Type below: are congruent since they are alt. interior \angle s. By AA similarity, \triangle ABC and \triangle DEC are similar. ESSENTIAL QUESTION CHECK-IN Question 4. How can you determine when two triangles are similar? Type below: Answer: If 2 angles of one triangle are congruent to 2 angles of another triangle, the triangles are similar by the Angle-Angle Similarity Postulate 11.3 Independent Practice - Angle Similarity - Page No. 367 Use the diagrams for Exercises 5-7. Question 5. Find the missing angle measures in the triangles. Type below: Answer: $m \angle B = 42^{\circ} m \angle F = 69^{\circ} m \angle H = 64^{\circ} m \angle K = 53^{\circ}$ Explanation: Using the Triangle Sum Theorem, $m \angle A + m \angle B + m \angle C = 180^{\circ} 85^{\circ} + 10^{\circ} 85^{\circ}$ $m \angle B + 53^\circ = 180^\circ 138^\circ + m \angle B = 180^\circ m \angle B = 180^\circ m \angle B = 180^\circ m \angle B = 42^\circ$ Using the Triangle Sum Theorem, $m \angle D + m \angle F = 180^\circ$ We substitute the given angle measures and we solve for $m \angle F = 180^\circ m \angle F = 180^\circ m \angle F = 180^\circ m \angle F = 69^\circ$ Using the Triangle Sum Theorem, $m \angle D + m \angle F = 180^\circ$ We substitute the given angle measures and we solve for $m \angle F = 180^\circ m \angle F = 180$ substitute the given angle measures and we solve for $m \angle H + 47^\circ + m \angle H = 180^\circ m \angle H = 180^\circ m \angle H = 64^\circ$ Using the Triangle Sum Theorem, $m \angle I + m \angle K = 180^\circ m \angle H = 64^\circ$ Using the Triangle Sum Theorem, $m \angle I + m \angle K = 180^\circ m \angle$ Question 6. Which triangles are similar? Type below: Answer: $\triangle ABC$ and $\triangle JKL$ are similar because their corresponding angles are congruent. Also, $\triangle DEF$ and $\triangle GHJ$ are similar because their corresponding is congruent. Question 7. Analyze Relationships Determine which angles are congruent to the angles in $\triangle ABC$. $\angle A \cong \angle$ Answer: $\Delta JKL \cong \Delta ABC$ Explanation: ΔJKL has angle measures that are the same as those is $\Delta ABC \neq A \cong \neq J \neq B \cong \neq L \neq C \cong \neq K$ Therefore, they are congruent. Question 8. Multistep A tree casts a shadow that is 20 feet long. Frank is 6 feet tall, and while standing next to the tree he casts a shadow that is 4 feet long. A How $\angle C \cong \angle$ tall is the tree? h =ft Answer: h = 30 ft Explanation: In similar triangles, corresponding side lengths are proportional. 20/4 = h/6 5 = h/6 h = 30 The tree is 30 feet tall. Question 8. b. How much taller is the tree than Frank? World Problems Sheila is climbing on a ladder that is attached against the side of a jungle gym wall. She is 5 feet from the wall. Draw a diagram to help you solve the problem. How high up the wall is the top of the ladder? ft Answer: 25 ft Explanation: $3/15 = 5/h 15 \times 3 =$ Answer: yes; two equilateral triangles are always similar. Each angle of an equilateral triangle is 60°. Since both triangles are equilateral then they are similar. Angle-Angle Similarity - Page No. 368 Question 11. Critique 3h 75 = 3h h = 75/3 = 25 Question 10. Justify Reasoning Are two equilateral triangles always similar? Explain. Reasoning Rvan calculated the missing measure in the diagram shown. What was his mistake? $(\frac{3.4}{6.5}) = \frac{110}{19.5} \times (\frac{3.4}{6.5}) = 10.2$ cm = h Type below: Answer: In the first line, Ryan did not take the sum of 6.5 and 19.5 to get the denominator on the right. The denominator on the right should be 26 instead of 19.5 the correct value for h 3.4/6.5 = h/26 h = (3.4/6.5) × 26 h = 13.6 cm FOCUS ON HIGHER ORDER THINKING Question 12. Communicate Mathematical Ideas For a pair of triangular earrings, how can you tell if they are congruent? Type below: Answer: The earrings are similar if two angle measures of one are equal to two angle measures of the other. The earrings are congruent if they are similar and if the side lengths of one are equal to two angle measures of the other. Answer: If the item is too tall or the distance is too long to measure directly, similar triangles can help with measuring. Ouestion 14, Justify Reasoning Two right triangles on a coordinate plane are similar but not congruent. Each of the legs of both triangles are extended by 1 unit, creating two new right triangles. in real life? Type below: Are the resulting triangles similar? Explain using an example. Answer: Two triangles are similar if their corresponding angles are congruent and the lengths of their corresponding sides are proportional. If each of the lengths of their corresponding sides are proportional. If each of the lengths of their corresponding sides are proportional sides are proportional sides are proportional. triangles are similar. Ready to Go On? - Model Quiz - Page No. 369 11.1 Parallel Lines Cut by a Transversal In the figure, line p || line q. Find the measure of each angle if m 48 = 115°. Question 1. m 47 = ° Answer: $m \neq 7 = 65^{\circ}$ Explanation: According to the exterior angle theorem. $m \neq 7 + m \neq 8 = 180^{\circ} \text{ m} \neq 7 + 115^{\circ} = 180^{\circ} \text{ m} \neq 7 = 180^{\circ} - 115^{\circ}$ $m \angle 7 = 65^\circ$ Question 2 $m \angle 6 =$ ° Answer: $m \angle 6 = 115^\circ$ Explanation: From the given figure, Line P is parallel to line Q. So, the angles given in line P is equal to the angles in line Q. They are corresponding angles. So, $m \angle 8 = m \angle 6 = 115^\circ$ Question 3. $m \angle 1 = 0^\circ$ Answer: $m \angle 1 = 115^\circ$ Explanation: $\angle 1$ and $\angle 6$ are alternative exterior angles. So, $m \angle 1 = m \angle 6 = 115^{\circ} 11.2$ Angle Theorems for Triangles Find the measure of each angle. Question 4. $m \angle A = 48^{\circ}$ Explanation: $m \angle A = 48^{\circ} = 180^{\circ} 7y = 180^{\circ} 7y = 180^{\circ} 7y = 180^{\circ} 7y = 180^{\circ} 4y^{\circ} + (3y + 22)^{\circ} = (3(12^{\circ}) + 22)^{\circ} = (3(12^{\circ}) + 22)^{\circ} = (3(12^{\circ}) + 22)^{\circ} = 58^{\circ}$ Question angles. So, $m \ge 1 = m \ge 6 = 115^{\circ} 11.2$ Angle Theorems for Trangles Find the measure of each angle. Question 4. $m \ge A = 40^{\circ}$ Explanation. $m \ge A = m \ge 5 = 100^{\circ} + y = (3y + 22)^{\circ} + 74^{\circ} = 180^{\circ} 7y = 180^{\circ} 96 = 84^{\circ} y = 12^{\circ} m \ge A = 4y^{\circ} = 4(12^{\circ}) = 48^{\circ} m \ge B = (3y + 22)^{\circ} = (3(12^{\circ}) + 22)^{\circ} = 58^{\circ}$ Question 6. $m \ge BCA = 100^{\circ}$ ° Answer: $m \angle BCA = 74^{\circ}$ Explanation: $m \angle BCD + m \angle BCA = 180^{\circ} \cdot 106^{\circ} + m \angle BCA = 180^{\circ} m \angle BCA = 180^{\circ} - 100^{\circ}$ 5. m∠B = $106^{\circ} \text{ m} \angle BCA = 74^{\circ}$ So, $\text{m} \angle BCA = 74^{\circ}$ 11.3 Angle-Angle Similarity Triangle FEG is similar to triangle IHJ. Find the missing values. Ouestion 7. x = Answer: x = 16 Explanation: In similar triangles, corresponding side lengths are proportional. HJ/EG = IJ/FG (x + 12)/42 = 40/60 (x + 12)/42 = 4/6 6x = 96 x = 16 Question 8. y = 16 Provide the second statement of the Answer: y = 9 Explanation: In similar triangles, corresponding side lengths are congruent. $m \angle HJI = m \angle EGF (5y + 7)^\circ = 52^\circ 5y^\circ + 7^\circ = 52^\circ 5y^\circ = 45^\circ y = 9$ Question 9. $m \angle H = 10^\circ T$ ° Answer: $m \angle H = 92^{\circ}$ Explanation: Using the Triangle Sum Theorem, $m \angle E + m \angle F + m \angle G = 180^{\circ}$ We substitute the given angle measures and we solve for $m \angle E$ $m \neq E + 36^{\circ} + 52^{\circ} = 180^{\circ} m \neq E + 88^{\circ} = 180^{\circ} m \neq E = 92^{\circ}$ In similar angles, corresponding side lengths are congruent $m \neq H = m \neq E m \neq H = 92^{\circ}$ ESSENTIAL QUESTION Question 10. How can you use similar triangles to solve real-world problems? Type below: Answer: we know that if two triangles are similar, then their corresponding angles are congruent and the lengths of their corresponding sides are proportional. We can use this to determine values that we cannot measure its shadow and our shadow on a sunny day. Selected Response - Mixed Review - Page No. 370 Use the figure for Exercises 1 and 2. Question 1. Which angle pair is a pair of alternate exterior angles? Options: A. $\angle 5$ and $\angle 4$ D. $\angle 5$ D. $\angle 6$ D. $\angle 6$ are same-side interior angles. They are not congruent instead their sum is equal to 180° Question 3. The measures, in degrees, of the three angles of a triangle are given by 2x + 1, 3x - 3, and 9x. What is the measure of the smallest angle? Options: A. 13° B. 27° C. 36° D. 117° Answer: B. 27° C. 37° D. 117° D. 117° D. 117° D. 117° D. the angles of the triangle is 180° m $\angle 1$ + m $\angle 2$ + m $\angle 3$ = 180° (2x + 1)° + (3x - 3)° + (9x)° = 180° 2x° + 1° + 3x° - 3° + 9x° = 180° 14x° - 2° = 180° 1 is 27° Question 4. Which is a possible measure of ∠DCA in the triangle below? Options: A. 36° B. 38° C. 40° D 70° Answer: D 70° Explanation: Using the Exterior Angle Theorem m∠A + m∠B = m∠DCA m∠A + 40° = m∠A + Jurassic period was 1.75 × 108 years ago. What is this number written in standard form? Options: A. 1,750,000 D. 17,500,000 C. 175,000,000 Explanation: 1.75 × 108 standard form Move the decimal point to 8 right places. 175,000,000 D. 17,500,000 D. 17,500 you write if y is 16 when x is 20? Options: A. y = 20x B. $y = \langle \frac{5}{3}, x \rangle$ = $(\frac{4}{5})$ D. y = 0.6x Answer: C. $y = \langle \frac{4}{5} \rangle$ Explanation: Y = 4/5x 16=4/5(20) $4/5 \times 20/1 = 80/5$ 80/5=16 Mini-Task Question 7. Two transversals intersect two parallel lines as shown. a. What is the value of x? x = Answer: x = 4 Explanation: $m \neq JKL = m \neq LNM \ 6x + 1 = 25 \ 6x = 24 \ x = 4 \ Question \ 7. \ b.$ What is the measure of $\neq LMN$? $_$ $^{\circ} Answer: 23^{\circ} Explanation: m \neq LMN = 3x + 11 = 3(4) + 11 = 12 + 11 = 23 \ Question \ 7. \ c.$ What is the measure of $\neq KLM = 48^{\circ} Explanation: \neq KLM = 48^{\circ} Expl$

= 25 + 23 = 48 Question 7. d. Which two triangles are similar? How do you know? Type below: _______ Answer: triangle LNM triangle KJL = triangle LNM are similar. triangle JKL = triangle LNM triangle KJL = triangle LMN Summary: The solutions provided in the Go Math Grade 8 Answer Key Chapter 11 Angle Relationships in Parallel Lines and Triangles are made by the professionals. Practice all the math questions available on the 8th Grade Text Book and learn how to solve the questions in a simple way. Hope the information provided in this article is beneficial for all the students of grade 8. Keep in touch with our website to get the pdfs of all the Go Math Grade 8 Answer Key Chapterwise.

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