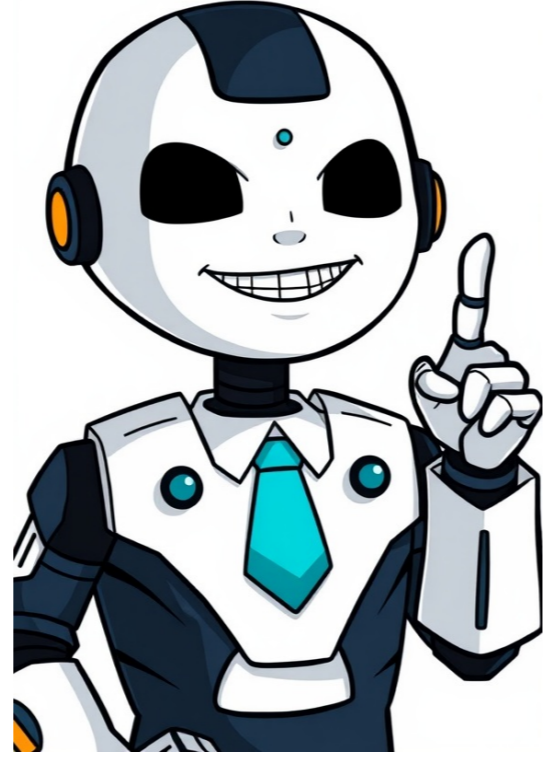


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that the perimeter of the field is: 920 feet c. Turf costs \$2.69 per square foot. Your school has a \$1,50,000 budget. Does the school have enough money to purchase new turf for the entire field? Answer: We know that, The area of the field = Length x Width So, The area of the field = $320 \times 140 = 44,800$ square feet it is given that the turf costs \$2.69 per square foot So, The total cost of the turf = $44,800 \times 2.69 = \$1,20,512$ It is given that your school has a budget of \$1,50,000 but we only need \$1,20,512 Hence, from the above, We can conclude that the school have enough money to purchase new turf for the entire field Question 5. Enter a statement or reason in each blank to complete the two-column proof. Given $\angle 1 \cong \angle 3$ Prove $\angle 2 \cong \angle 4$ Answer: The given table is: Hence, The completed table is: Question 6. Your friend claims that lines m and n are parallel. Do you support your friend's claim? Explain your reasoning. Answer: Yes, I support my friend's claim Explanation: From the given figure, We can observe that 141° and 39° are the consecutive interior angles We know that, According to the consecutive Interior Angles Theorem, If the sum of the angles of the consecutive interior angles is 180° , then the two lines that are cut by a transversal are parallel Hence, from the above, We can conclude that the claim of your friend can be supported Question 7. Which of the following is true when are skew? (A) are parallel. (B) intersect (C) are perpendicular (D) A, B, and C are noncollinear. Answer: We know that, The "Skew lines" are the lines that are not parallel, non-intersect, and non-coplanar Here, from the given options, We can conclude that option D) is correct because parallel and perpendicular lines have to be lie in the same plane Question 8. Select the angle that makes the statement true. $\angle 1$ $\angle 2$ $\angle 3$ $\angle 4$ $\angle 5$ $\angle 6$ $\angle 7$ $\angle 8$ a. $\angle 4 \cong$ _____ b the Alternate Interior Angles Theorem (Thm. 3.2). Answer: From the given figure, We can conclude that By using the Alternate interior angles Theorem, $\angle 4 \cong \angle 5$ b. $\angle 2 \cong$ _____ by the Corresponding Angles Theorem (Thm. 3. 1) Answer: From the given figure, We can conclude that By using the Corresponding angles Theorem, $\angle 2 \cong \angle 6$ c. $\angle 1 \cong$ _____ by the Alternate Exterior Angles Theorem (Thm. 3.3). Answer: From the given figure, We can conclude that By using the Alternate exterior angles Theorem, $\angle 1 \cong \angle 8$ d. $m\angle 6 + m$ _____ = 180° by the Consecutive Interior Angles Theorem (Thm. 3.4). Answer: From the given figure, We can conclude that By using the Consecutive interior angles Theorem, $\angle 6 + \angle 4 = 180^\circ$ Question 9. You and your friend walk to school together every day. You meet at the halfway point between your houses first and then walk to school. Each unit in the coordinate plane corresponds to 50 yards. Answer: It is given that you and your friend walk to school together every day. You meet at the halfway point between your houses first and then walk to school. Each unit in the coordinate plane corresponds to 50 yards. a. What are the coordinates of the midpoint of the line segment joining the two houses? Answer: From the given figure, We can conclude that the midpoint of the line segment joining the two houses is: M = (150, 250) b. What is the distance that the two of you walk together? Answer: From the given figure, We can observe that The coordinates of the school = (400, 300) The coordinates of the midpoint of the line segment joining the two houses = (150, 250) It is given that the two friends walk together from the midpoint of the houses to the school Now, We know that, The distance that the two of you walk together is: $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} = \sqrt{(250 - 300)^2 + (150 - 400)^2} = \sqrt{2500 + 62,500} = 255$ yards Hence, from the above, We can conclude that the distance that the two of the friends walk together is: 255 yards

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