**Grade 4 Map Shown Below – Anchor Annotations**

**A1 Score 4**

Part A: The student provided a correct combination of three named roads on the map that form the three sides of a right triangle (*Benson Ln, Lincoln Ave., and Farm St.*). [1 point]

Part B: The student correctly named the three roads that run parallel to Troy Ln. (*Marlin Ln., Franklin Ln., and Benson Ln.*). [1 point]

Part C: The student provided a correct answer (*Lincoln Ave.*) that proves Jack’s claim is not correct, since Lincoln Ave. intersects Farm St. and is not perpendicular to Farm St. [1 point]

Part D: The student provided a correct and complete explanation as to why the map does not have a line of symmetry (*because if you fold the streets in half, each side is not the same*). [1 point]

**A2 Score 4**

Part A: The student provided a correct combination of three named roads on the map that form the three sides of a right triangle (*Lemon st., lincoln Ave., Franklin Ln.*). [1 point]

Part B: The student correctly named the three roads that run parallel to Troy Ln. (*Marlin Ln., Franklin Ln., Benson Ln.*). [1 point]

Part C: The student provided a correct answer (*Lincoln Ave.*) that proves Jack’s claim is not correct, since Lincoln Ave. intersects Farm St. and is not perpendicular to Farm St. [1 point]

Part D: The student provided a correct and complete explanation as to why the map does not have a line of symmetry (*if you were to split the map in half any way the roads are’nt the same*). [1 point]

**A3 Score 3**

Part A: The student provided a correct combination of three named roads on the map that form the three sides of a right triangle (*Lincoln Ave., Farm St., Benson Ln.,*). [1 point]

Part B: The student correctly named the three roads that run parallel to Troy Ln. (*Marlin Ln., Franklin Ln., Benson Ln.,*). [1 point]

Part C: The student provided a correct answer (*Lincoln Ave.*) that proves Jack’s claim is not correct, since Lincoln Ave. intersects Farm St. and is not perpendicular to Farm St. [1 point]

Part D: The student provided a correct but incomplete explanation as to why the map does not have a line of symmetry (*streets are going in different directions, causing them to not be in orderly fashion*). [0.5 point]

**A4 Score 3**

Part A: The student provided a correct combination of three named roads on the map that form the three sides of a right triangle (*Lincoln ave., Benson Ln., Olive St.*). [1 point]

Part B: The student correctly named the three roads that run parallel to Troy Ln. (*Marlin Ln., Franklin Ln., Benson Ln.*). [1 point]

Part C: The student provided a correct answer (*Lincoln ave.*) that proves Jack’s claim is not correct, since Lincoln Ave. intersects Farm St. and is not perpendicular to Farm St. [1 point]

Part D: The explanation provided (*Because it has other roads that can not have a line of symmetry through them*) is incorrect and does not explain why the map does not have a line of symmetry. [0 points]

**A5 Score 3**

Part A: The three-road combination provided by the student (*Lincoln Ave., Farm St., Franklin Ln.*) does not form the three sides of a right triangle. While Farm St. and Franklin Ln. form a right angle, Lincoln Ave. is not a road that would form a right triangle with these two roads. [0 points]

Part B: The student correctly named the three roads that run parallel to Troy Ln. (*Marlin Ln., Franklin Ln, Benson Ln.*). [1 point]

Part C: The student provided a correct answer (*Lincoln Ave.*) that proves Jack’s claim is not correct, since Lincoln Ave. intersects Farm St. and is not perpendicular to Farm St. [1 point]

Part D: The student provided a correct and complete explanation as to why the map does not have a line of symmetry (*The way the map is separated by the streets makes no lines of symmetry*). [1 point]

**A6 Score 2**

Part A: The student provided a correct combination of three named roads on the map that form the three sides of a right triangle (*Benson Ln., Lincon ave., Farm St*). [1 point]

Part B: The student provided a partially correct answer of two of the three roads that run parallel to Troy Ln. (*marlin Ln., Franklin Ln.*) without including any incorrect roads. The student did not include Benson Ln., which is needed for full credit. [0.5 point]

Part C: The student provided a correct answer (*Lincon ave.*) that proves Jack’s claim is not correct, since Lincoln Ave. intersects Farm St. and is not perpendicular to Farm St. [1 point]

Part D: The explanation provided (*Because everything is crossing each other*) is incorrect and does not explain why the map does not have a line of symmetry. [0 points]

**A7 Score 2**

Part A: The three-road combination provided by the student (*Farm St., Lincoln Ave., Franklin Ln.*) does not form the three sides of a right triangle. While Farm St. and Franklin Ln. form a right angle, Lincoln Ave. is not a road that would form a right triangle with these two roads. [0 points]

Part B: The student provided an incorrect answer (*Olive st., Farm st., Lemon st.*). The student listed three roads that are perpendicular to Troy Ln., instead of parallel. [0 points]

Part C: The student provided a correct answer (*Lincon Ave.*) that proves Jack’s claim is not correct, since Lincoln Ave. intersects Farm St. and is not perpendicular to Farm St. [1 point]

Part D: The student provided a correct and complete explanation as to why the map does not have a line of symmetry (*because the rouds are all difforent ways like diagnal and straight in difforent places on the map*). [1 point]

**A-8 Score 1**

Part A: The three-road combination provided by the student (*Lincoln Ave, Farm Street, Olive Street*) does not form the three sides of a right triangle. Additionally, Farm St. and Olive St. are parallel to each other and could not be two of the three sides of a triangle. [0 points]

Part B: The student provided an incorrect answer (*Lemon St., Farm St, Olive st.*). The student listed 3 roads that are perpendicular to Troy Ln., instead of parallel. [0 points]

Part C: The student provided a correct answer (*Lincoln Avenue*) that proves Jack’s claim is not correct, since Lincoln Ave. intersects Farm St. and is not perpendicular to Farm St. [1 point]

Part D: The explanation provided (*Because some of the shapes go across, some go down, some go to the side, some go up some will also cross each other*) is incorrect and does not explain why the map does not have a line of symmetry. [0 points]

**A-9 Score 1**

Part A: The student provided a correct combination of three named roads on the map that form the three sides of a right triangle (*Lincoln Ave., Troy Ln., Lemon St.*). [1 point]

Part B: The student’s answer provided three correct roads (*Benson Ln., Franklin Ln, Marlin Ln.*) with one incorrect road (*Troy Ln.*). An answer with incorrect roads does not earn any credit. [0 points]

Part C: The student provided an incorrect answer (*Benson St., Lemon St., and Olive St.*). Although Benson St. intersects Farm St., Benson St. is perpendicular to Farm St., which supports Jack’s claim as opposed to identifying a road that would prove Jack’s claim is not correct. [0 points]

Part D: The explanation provided (*because it doesn’t have a shape of triangle*) is incorrect and does not explain why the map does not have a line of symmetry. [0 points]

**A-10 Score 1**

Part A: The three-road combination provided by the student (*Franklin Ln., Troy Ln., Olive St.*) does not form the three sides of a right triangle. Additionally, Franklin Ln. and Troy Ln. are parallel to each other and could not be two of the three sides of a right triangle. [0 points]

Part B: The student provided a partially correct answer of two of the three roads that run parallel to Troy Ln. (*Marlin Ln., Franklin Ln.*) without including any incorrect roads. The student did not include Benson Ln., which is needed for full credit. [0.5 point]

Part C: The student provided an incorrect answer (*Olive St*). Although Olive St. is not perpendicular to Farm St. Olive St. does not intersect Farm St., which neither supports Jack’s claim nor proves his claim is not correct. [0 points]

Part D: The explanation provided (*Because all the roads are facing a different way*) is incorrect and does not explain why the map does not have a line of symmetry. [0 points]

**A-11 Score 0**

Part A: The three-road combination provided by the student (*Farm St., Troy Ln., Lemon St.*) does not form the three sides of a right triangle. While Farm St. and Troy Ln. form a right angle, Lemon St. is not a road that would form a right triangle with these two roads. Similarly, Lemon St. and Troy Ln. form a right angle, but Farm St. is not a road that would form a right triangle with these two roads. [0 points]

Part B: The student’s answer provided only one correct road (*Franklin Ln.*) with two incorrect roads (*Lincoln Ave., Olive St.*). An answer with incorrect roads does not earn any credit. [0 points]

Part C: The student provided an incorrect answer (*Farm St. intersects with troy Ln.*). Although Troy Ln. intersects Farm St., Troy Ln. is perpendicular to Farm St., which supports Jack’s claim as opposed to identifying a road that would prove Jack’s claim is not correct. [0 points]

Part D: The explanation provided (*because a rectangle can have a line of siymmetry*) is incorrect and does not explain why the map does not have a line of symmetry. [0 points]

**A-12 Score 0**

Part A: The three-road combination provided by the student (*Farm St., Olive St., Lincoln Ave.*) does not form the three sides of a right triangle. Additionally, Farm St. and Olive St. are parallel to each other and could not be two of the three sides of a right triangle. [0 points]

Part B: The student’s answer provided only one correct road (*Marlin Ln.*) with three incorrect roads (*Lemon St., Lincoln Ave., Farm St.*). An answer with incorrect roads does not earn any credit. [0 points]

Part C: The student provided an incorrect answer (*Lemon St.*). Although Lemon St. is not perpendicular to Farm St., Lemon St. does not intersect Farm St., which neither supports Jack’s claim nor proves his claim is not correct. [0 points]

Part D: The explanation provided (*some St. are closely connected to each other*) is incorrect and does not explain why the map does not have a line of symmetry. [0 points]