**Grade 4 Map Shown Below – Training Set 1 Annotations**

**T1-1 Score 3**

Part A: The three-road combination provided by the student (*Farm St., Marlin Ln., Troy Ln.*) does not form the three sides of a right triangle. Additionally, Marlin Ln. and Troy Ln. are parallel to each other and could not be two of the three sides of a triangle. [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 (*Licon 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 roads make the map unsymetrcal*). [1 point]

**T1-2 Score 1**

Part A: The three sets of two-road combinations provided by the student is an incorrect answer. While the two roads listed in the third set (*3. Benson Ln, Farm St*) intersect to form a right angle, the pair of roads listed in the other sets do not form a right angle (*1. Lincoln Ave, Franklin Ln.* and *2. Olive St, Lincoln Ave.*). [0 points]

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

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 (*A rectangle is not apart of a line of symmetry*) is incorrect and does not explain why the map does not have a line of symmetry. [0 points]

**T1-3 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 (*Olive St., Lincon Ave., Franklin Ln.*). [1 point]

Part B: The student correctly used the parallel symbol to write three mathematical sentences to show each of the three roads that are parallel to Troy Ln. (*Troy Ln. || Marlin Ln., Troy Ln. || Franklin Ln., Troy 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 map has streets that cannot line up*). [1 point]

**T1-4 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, and Benson Ln.*). [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 explanation provided (*because on side is bigger than the other side*) is incorrect and does not explain why the map does not have a line of symmetry. [0 points]

**T1-5 Score 0**

Part A: The three sets of two-road combinations provided by the student is an incorrect answer (*Lincoln Ave. and Farm St., Lincoln Ave. and Farm St., Lincoln Ave. and Franklin Ln.*). None of the pairs of roads provided in each set intersect to form a right angle. [0 points]

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

Part C: The student provided an incorrect answer (*Franklin Ln.*). Although Franklin Ln. intersects Farm St., Franklin 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 (*there are different kind of shapes in the rectangle or the map*) is incorrect and does not explain why the map does not have a line of symmetry. [0 points]

**T1-6 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 (*Lincoln Ave., Franklin Ln., Lemon St.*). [1 point]

Part B: The student provided a partially correct answer of two of the three roads that run parallel to Troy Ln. (*Benson Ln., Franklin Ln.*), without including any incorrect roads. The student did not include Marlin Ln., which is needed for full credit. [0.5 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 then we would not be able to have Lincoln Ave.*) is incorrect and does not explain why the map does not have a line of symmetry. [0 points]

**T1-7 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 (*Lincoln Ave., Farm St. and Benson Ln.*). [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 the lines on one side don’t match the others*). [1 point]

**T1-8 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 (*Farm St., Lincoln Ave., and Benson Ln.*). [1 point]

Part B: The student’s answer provided only one correct road (*Marlin Ln.*) with two incorrect roads (*Farm St., Lemon St.*). An answer with incorrect roads does no earn any credit. [0 points]

Part C: The student provided an incorrect answer (*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 student provided a correct and complete explanation as to why the map does not have a line of symmetry (*because… all the streets are not forming any symmetry*). [1 point]

**T1-9 Score 1**

Part A: The three-road combination provided by the student (*Farm St., Lincoln Ave., Olive St.*) 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 provided an incorrect answer (*Lemon St., Farm St., Olive 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 (*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 the roads are going in all different directions*) is incorrect and does not explain why the map does not have a line of symmetry. [0 points]

**T1-10 Score 3**

Part A: The three sets of two-road combinations (*Farm St. and Franklin Ln., Lemon St. and Troy Ln., Farm St. and Marlin Ln*) provided by the student is a partially correct answer as each of the combinations provided have two roads that intersect to form a right angle. [0.5 point]

Part B: The student correctly named the three roads that run parallel to Troy Ln. (*Benson Ln., Franklin Ln., Marlin 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 the roads are not the same on both sides*). [1 point]