PSSA and Keystone Exams
Summer 2023 Workshops

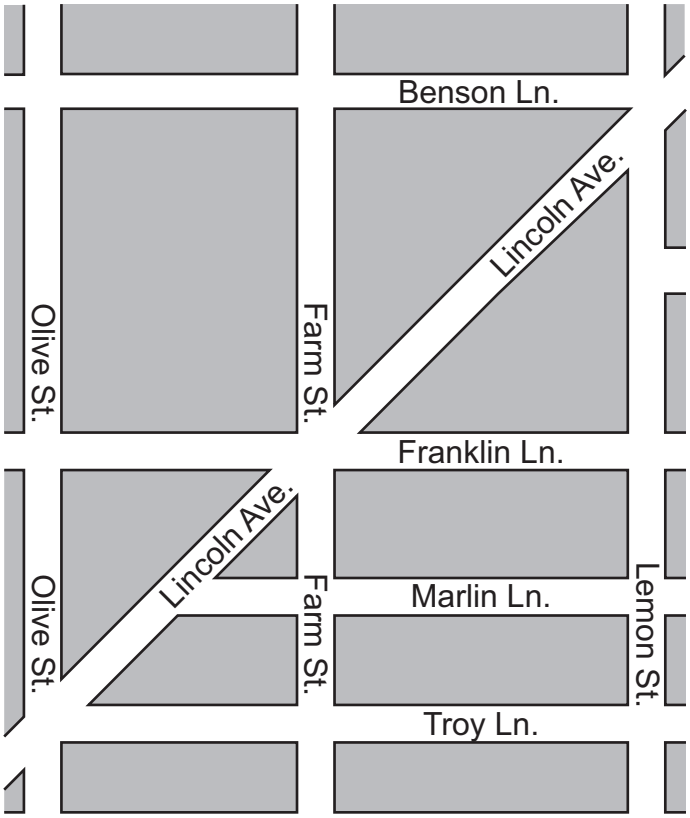
PSSA, Grade 4 Math

Map Shown Below

Handscoring
Anchor Set

PSSA Math: Map Shown Below (Grade 4); Anchor Set

1. A map is shown below.



There are right triangles shown in the map.

A. List three roads that form a right triangle.

There are roads that run parallel to Troy Ln. shown in the map.

B. List all the roads that run parallel to Troy Ln.

1. ***Continued.*** Please refer to the previous page for task explanation.

Jack claims that Farm St. is perpendicular to every road it intersects on the map.

C. Which road proves that Jack's claim is **not** correct?

D. Explain why the map does not have a line of symmetry even though it is in the shape of a rectangle.

Map Shown Below
Grade 4

Assessment Anchor this item will be reported under:

M04.C-G.1 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Specific Anchor Descriptor addressed by this item:

M04.C-G.1.1 List properties, classify, draw, and identify geometric figures in two dimensions.

Scoring Guide:

Score	In this item, the student –
4	Demonstrates a thorough understanding of drawing and identifying lines and angles, and classifying shapes by properties of their lines and angles by correctly solving problems and clearly explaining procedures.
3	Demonstrates a general understanding of drawing and identifying lines and angles, and classifying shapes by properties of their lines and angles by correctly solving problems and clearly explaining procedures with only minor errors or omissions.
2	Demonstrates a partial understanding of drawing and identifying lines and angles, and classifying shapes by properties of their lines and angles by correctly performing a significant portion of the required task.
1	Demonstrates minimal understanding of drawing and identifying lines and angles, and classifying shapes by properties of their lines and angles.
0	The response has no correct answer and insufficient evidence to demonstrate any understanding of the mathematical concepts and procedures as required by the task. Response may show only information copied from the question.

Top Scoring Student Response And Training Notes:

Score	Description
4	Student earns 4 points.
3	Student earns 3.0 – 3.5 points.
2	Student earns 2.0 – 2.5 points.
1	Student earns 0.5 – 1.5 points. OR Student demonstrates minimal understanding of drawing and identifying lines and angles, and classifying shapes by properties of their lines and angles.
0	Response is incorrect or contains some correct work that is irrelevant to the skill or concept being measured.

A.

What?	Why?
Students must have one of these 8 combinations (order does not matter): • Olive St., Benson Ln., Lincoln Ave. • Olive St., Franklin Ln., Lincoln Ave. • Farm St., Benson Ln., Lincoln Ave. • Farm St., Troy Ln., and Lincoln Ave. • Farm St., Marlin Ln., Lincoln Ave. • Lemon St., Troy Ln., Lincoln Ave. • Lemon St., Marlin Ln., Lincoln Ave. • Lemon St., Franklin Ln., Lincoln Ave.	

(1 score point)

1 point for correct answer

OR ½ point for correctly identifying 2 roads that form a right angle

B.

What?	Why?
Marlin Ln., Franklin Ln., Benson Ln. (order does not matter)	

(1 score point)

1 point for correct answer

OR ½ point for 2 correct roads and no incorrect roads

C.

What?	Why?
Lincoln Ave.	

(1 score point)

1 point for correct answer

D.

What?	Why?
	Sample Explanation: The reason the map does not have a line of symmetry is because the roads on the map are not set up symmetrically. **OR** The reason the map does not have a line of symmetry is because the left side and the right side of the map are not mirror images, and the top half and the bottom half of the map are not mirror images. **OR equivalent**

(1 score point)

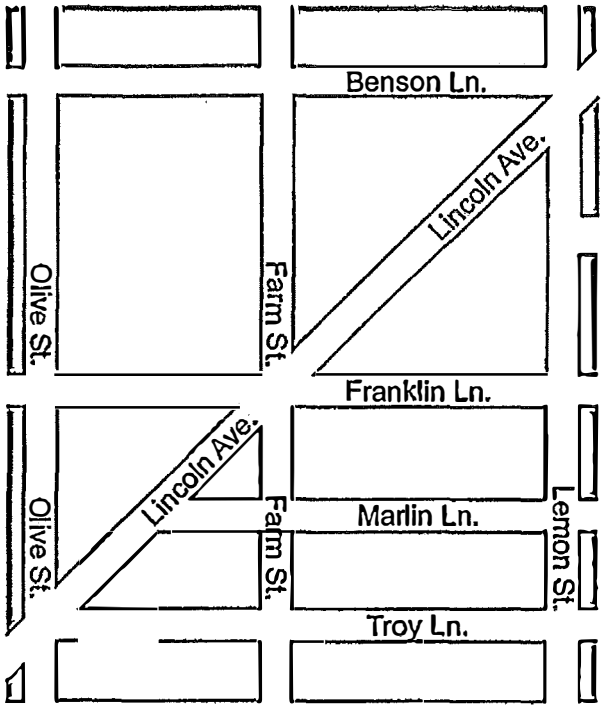
1 point for correct and complete explanation

OR ½ point for correct but incomplete explanation

[Note: throughout the item, students should <u>not</u> lose any credit for not including or for misidentifying Ave., Ln., or St.

MATHEMATICS SECTION 2

51. A map is shown below.



There are right triangles shown on the map.

A. List three roads that form a right triangle.

Three roads that form a right triangle are Benson Ln, Lincoln Ave., and Farm St.

There are roads that run parallel to Troy Ln. shown on the map.

B. List all the roads that run parallel to Troy Ln.

The roads parallel to Troy Ln. are Marlin Ln., Franklin Ln., and Benson Ln.

A1

MATHEMATICS SECTION 2

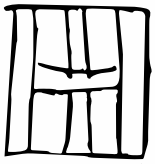
51. ***Continued.*** Please refer to the previous page for task explanation.

Jack claims that Farm St. is perpendicular to every road it intersects on the map.

C. Which road proves that Jack's claim is not correct?

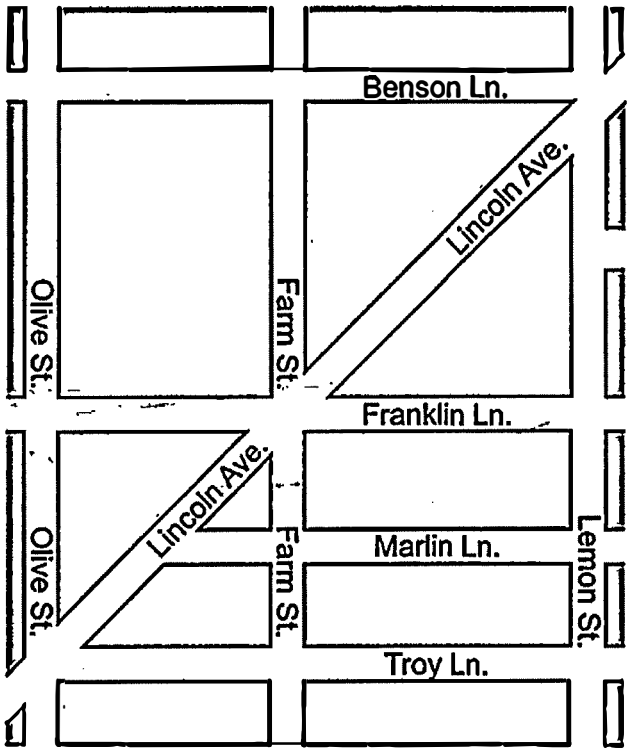
Lincoln Ave. is the street that proves Jack wrong.

D. Explain why the map does not have a line of symmetry even though it is in the shape of a rectangle.

The map does not have a line of symetry because if you fold the streets in half, each side is not the same. if you fold a streets like this  in half  , you can see the sides are the same. That is why the map dosen't have a line of symetry.

MATHEMATICS SECTION 2

51. A map is shown below.



There are right triangles shown on the map.

A. List three roads that form a right triangle.

Lemon st. lincoln Ave.
Franklin Ln.

There are roads that run parallel to Troy Ln. shown on the map.

B. List all the roads that run parallel to Troy Ln.

marlin Ln. Franklin Ln.
Benson Ln.

MATHEMATICS SECTION 2

51. ***Continued.*** **Please refer to the previous page for task explanation.**

Jack claims that Farm St. is perpendicular to every road it intersects on the map.

C. Which road proves that Jack's claim is not correct?

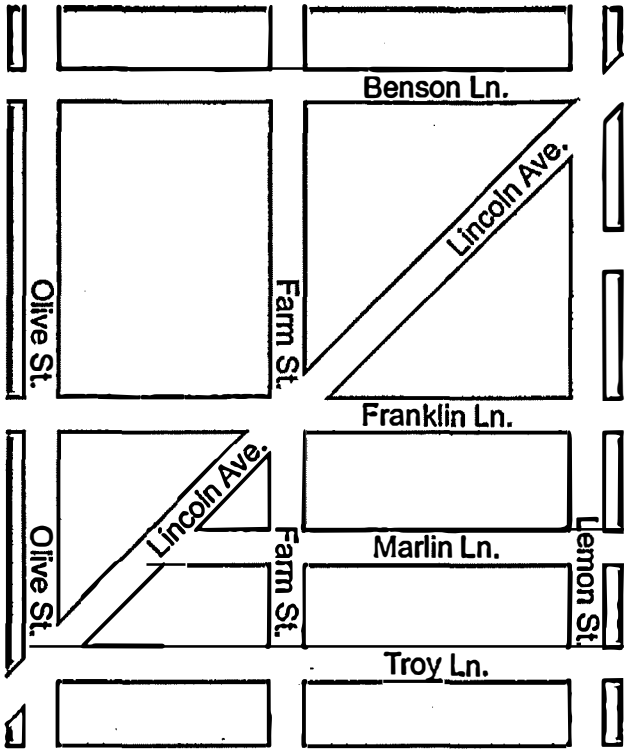
Lincoln Ave.

D. Explain why the map does not have a line of symmetry even though it is in the shape of a rectangle.

It does not have a line of symmetry because if you were to spit the map in half any way the roads aren't the same.

MATHEMATICS SECTION 2

51. **A map is shown below.**



There are right triangles shown on the map.

A. List three roads that form a right triangle.

Lincoln Ave., Farm St., Benson Ln.,

There are roads that run parallel to Troy Ln. shown on the map.

B. List all the roads that run parallel to Troy Ln.

Marlin Ln., Franklin Ln., Benson Ln.,

51. ***Continued.*** **Please refer to the previous page for task explanation.**

Jack claims that Farm St. is perpendicular to every road it intersects on the map.

C. Which road proves that Jack's claim is not correct?

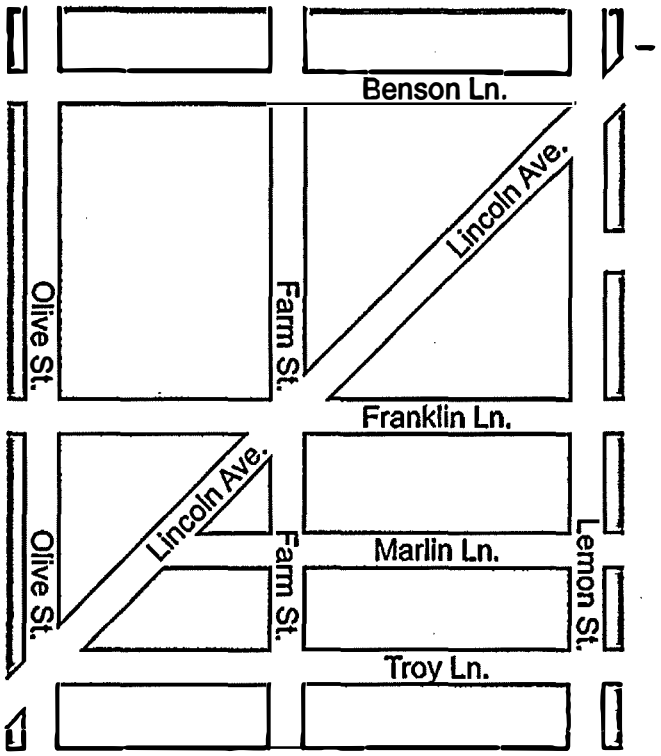
Lincoln Ave.

D. Explain why the map does not have a line of symmetry even though it is in the shape of a rectangle.

The streets. What I mean is the streets are going in different directions, causing them to not be in orderly fashion.

MATHEMATICS SECTION 2

51. A map is shown below.



There are right triangles shown on the map.

A. List three roads that form a right triangle.

Lincoln ave., Benson Ln.
Olive st.

There are roads that run parallel to Troy Ln. shown on the map.

B. List all the roads that run parallel to Troy Ln.

Marlin Ln., Franklin Ln.,
Benson Ln.

MATHEMATICS SECTION 2

51. ***Continued.*** **Please refer to the previous page for task explanation.**

Jack claims that Farm St. is perpendicular to every road it intersects on the map.

C. **Which road proves that Jack's claim is not correct?**

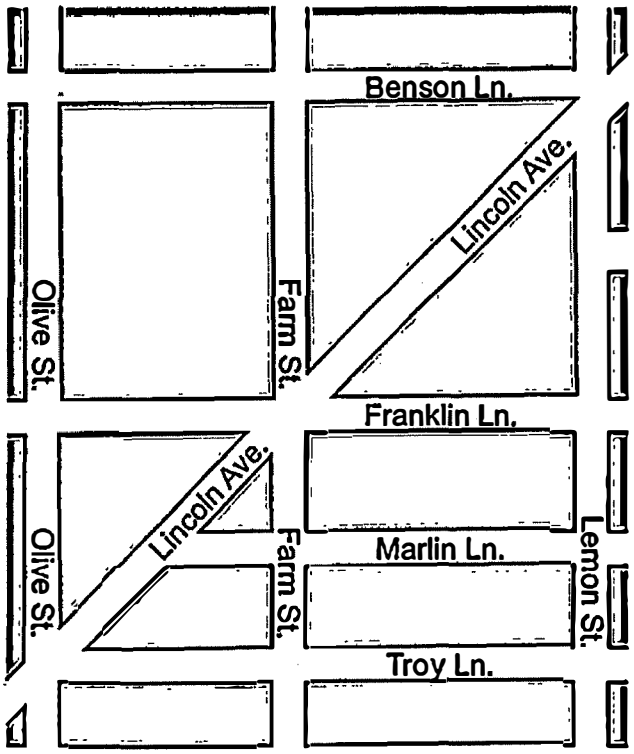
Lincoln ave,

D. **Explain why the map does not have a line of symmetry even though it is in the shape of a rectangle.**

Because it has other roads that can not have aline of symmetry through them,

MATHEMATICS SECTION 2

51. A map is shown below.



There are right triangles shown on the map.

A. List three roads that form a right triangle.

Lincoln Ave., Farm St., Franklin Ln.

There are roads that run parallel to Troy Ln. shown on the map.

B. List all the roads that run parallel to Troy Ln.

Marlin Ln., Franklin Ln., Benson Ln.

51. ***Continued.*** **Please refer to the previous page for task explanation.**

Jack claims that Farm St. is perpendicular to every road it intersects on the map.

C. **Which road proves that Jack's claim is not correct?**

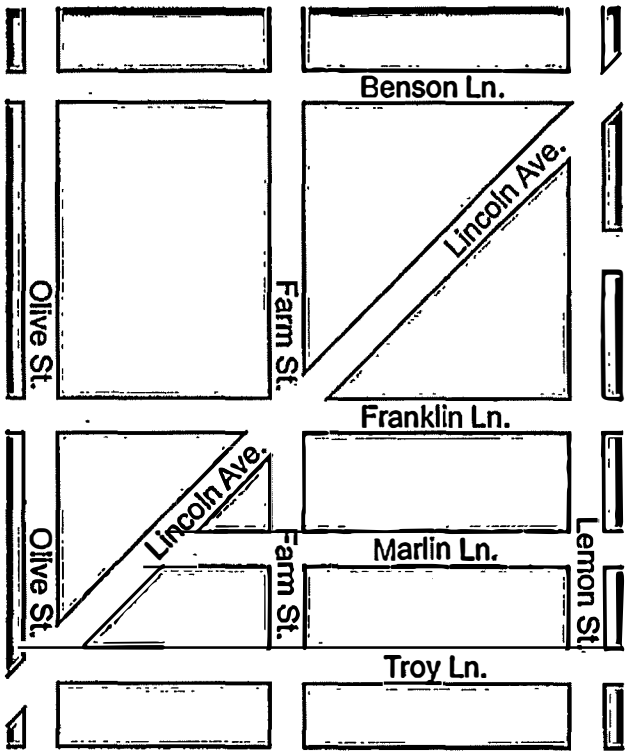
Lincoln Ave.

D. **Explain why the map does not have a line of symmetry even though it is in the shape of a rectangle.**

The way the map is separated by the streets makes no lines of symmetry.

MATHEMATICS SECTION 2

51. A map is shown below.



There are right triangles shown on the map.

A. List three roads that form a right triangle.

Benson Ln. Lincon ave. Farm St.

There are roads that run parallel to Troy Ln. shown on the map.

B. List all the roads that run parallel to Troy Ln. marlin Ln. Franklin Ln.

51. ***Continued.*** **Please refer to the previous page for task explanation.**

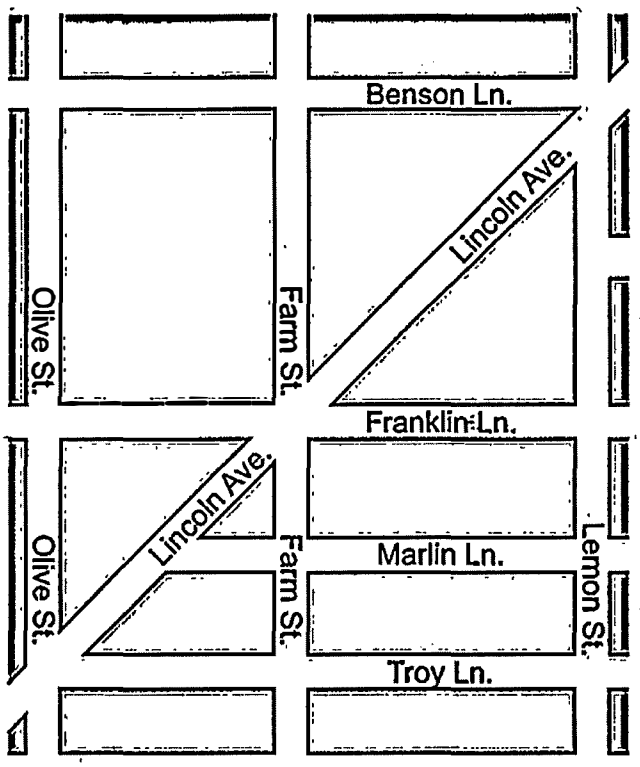
Jack claims that Farm St. is perpendicular to every road it intersects on the map.

C. **Which road proves that Jack's claim is not correct?**

Lincon ave.

D. **Explain why the map does not have a line of symmetry even though it is in the shape of a rectangle.** because everything is crossing each other.

51. A map is shown below.



There are right triangles shown on the map.

A. List three roads that form a right triangle.

Farm st. Lincoln Ave
Franklin ln. 0

There are roads that run parallel to Troy Ln. shown on the map.

B. List all the roads that run parallel to Troy Ln.

Olive st., Farm st,
Lemon st.,

MATHEMATICS SECTION 2

51. ***Continued.*** **Please refer to the previous page for task explanation.**

Jack claims that Farm St. is perpendicular to every road it intersects on the map.

C. Which road proves that Jack's claim is not correct?

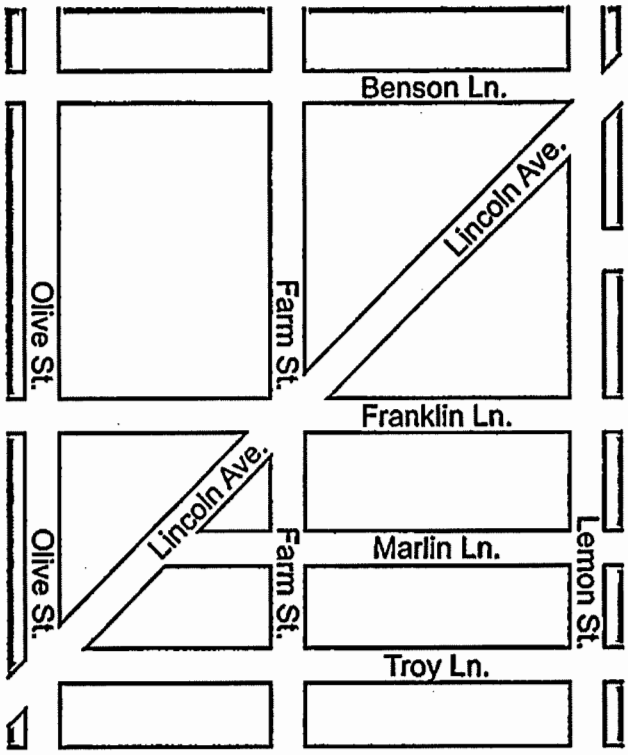
Lincon Ave.

D. Explain why the map does not have a line of symmetry even though it is in the shape of a rectangle.

because the rouds are all diforent and in diforent places so the is no symmetry becaoe the rouds are all diforent ways like aiagnal and Straight in diforent places on the map.

MATHEMATICS SECTION 2

51. A map is shown below.



There are right triangles shown on the map.

A. List three roads that form a right triangle.
Lincoln Ave Farm Street Olive Street

There are roads that run parallel to Troy Ln. shown on the map.

B. List all the roads that run parallel to Troy Ln.
Lemon St. Farm St Olive st.

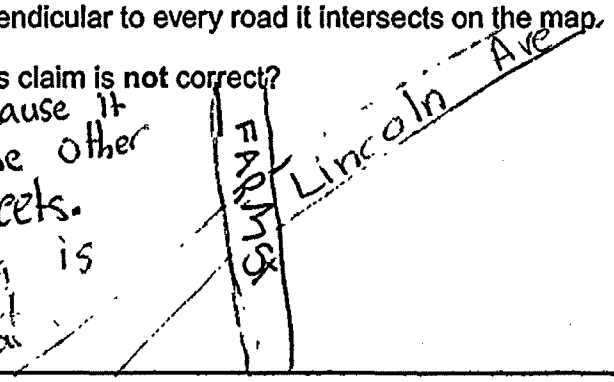
MATHEMATICS SECTION 2

51. ***Continued.*** **Please refer to the previous page for task explanation.**

Jack claims that Farm St. is perpendicular to every road it intersects on the map.

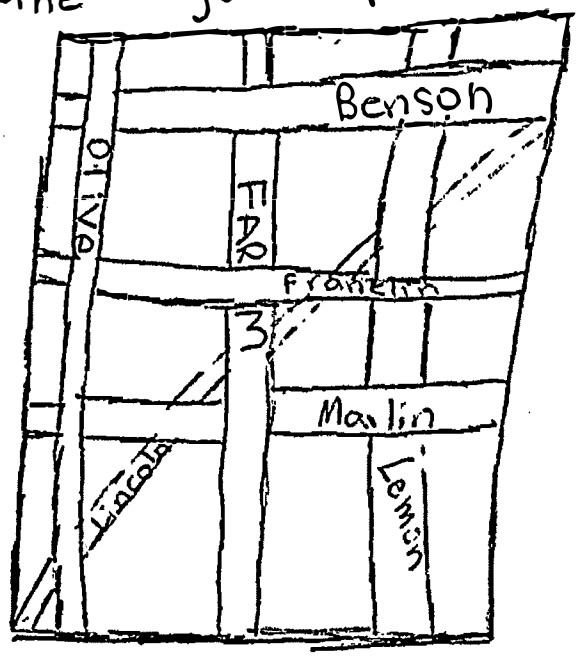
C. **Which road proves that Jack's claim is not correct?**

Lincoln Avenue because it crosses into the other lands and streets. Another thing is that its not purperdic alar



D. **Explain why the map does not have a line of symmetry even though it is in the shape of a rectangle.**

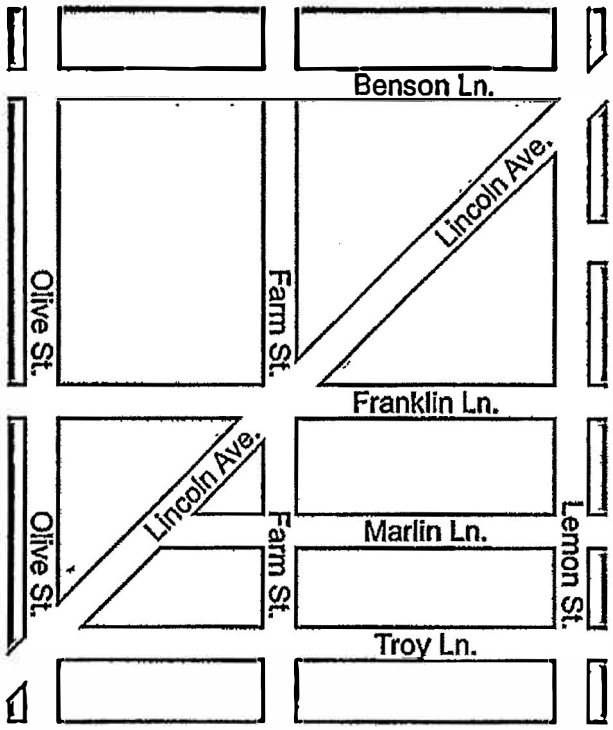
Because some of the shapes go across, some go down, some go to the side, some go up some will also cross another



A9

MATHEMATICS SECTION 2

51. A map is shown below.



There are right triangles shown on the map.

A. List three roads that form a right triangle.

Lincoln Ave.
Troy Ln.
Lemon St.

There are roads that run parallel to Troy Ln. shown on the map.

B. List all the roads that run parallel to Troy Ln.

Benson Ln.
Franklin Ln
Marlin Ln.
Troy Ln.

MATHEMATICS SECTION 2

51. ***Continued.*** **Please refer to the previous page for task explanation.**

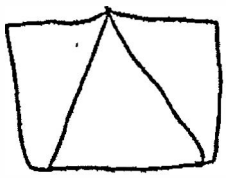
Jack claims that Farm St. is perpendicular to every road it intersects on the map.

C. Which road proves that Jack's claim is not correct?

Benson St., Lemon St., and Olive St.

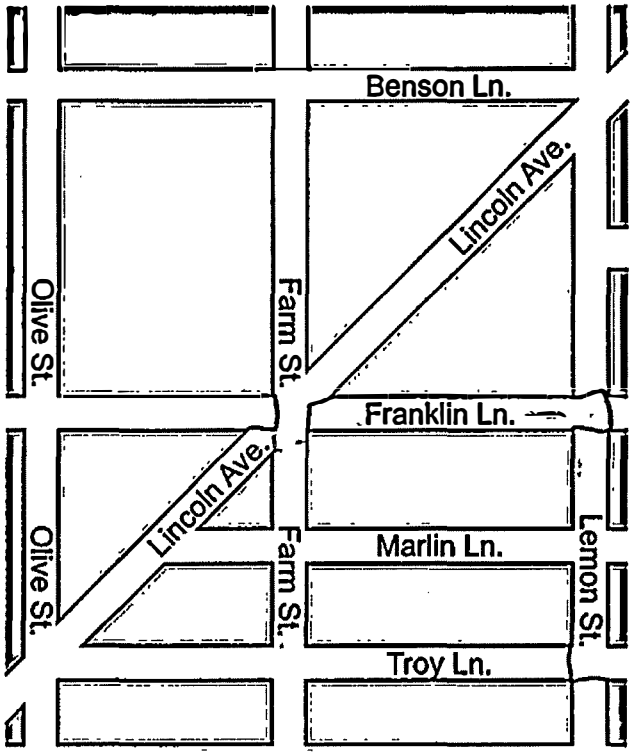
D. Explain why the map does not have a line of symmetry even though it is in the shape of a rectangle.

It does not have a line symmetry because it dosent have a shape of triangle.



MATHEMATICS SECTION 2

51. A map is shown below.



There are right triangles shown on the map.

A. List three roads that form a right triangle.

Franklin Ln. Troy Ln.
Olive St.

There are roads that run parallel to Troy Ln. shown on the map.

B. List all the roads that run parallel to Troy Ln.

Marlin Ln.
Franklin Ln.

MATHEMATICS SECTION 2

51. ***Continued.*** **Please refer to the previous page for task explanation.**

Jack claims that Farm St. is perpendicular to every road it intersects on the map.

C. **Which road proves that Jack's claim is not correct?**

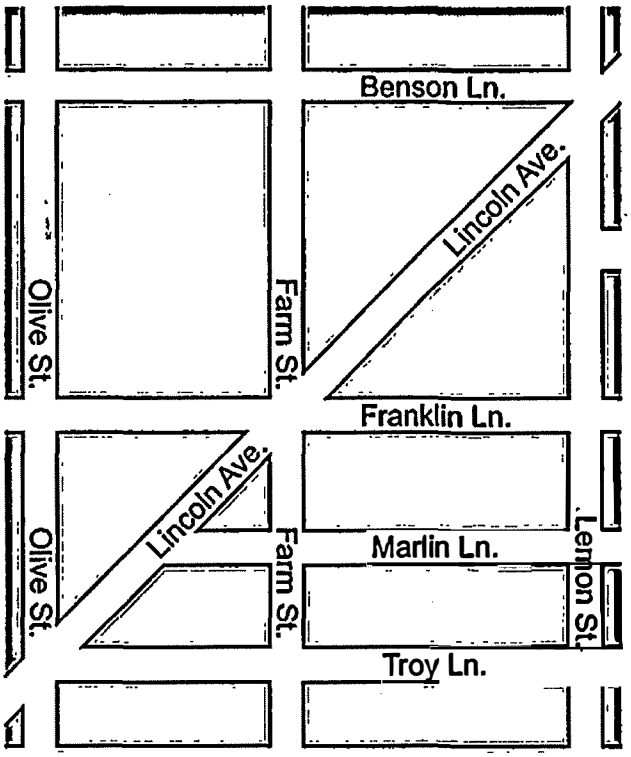
Olive St does because it is stright up and down

D. **Explain why the map does not have a line of symmetry even though it is in the shape of a rectangle.**

Because all the roads are facing a different way.

MATHEMATICS SECTION 2

51. A map is shown below.



There are right triangles shown on the map.

A. List three roads that form a right triangle.

Farm st. Troy Ln. Lemon st.

There are roads that run parallel to Troy Ln. shown on the map.

B. List all the roads that run parallel to Troy Ln.

Lincoln Ave. Frankin Ln. olive st

51. ***Continued.*** **Please refer to the previous page for task explanation.**

Jack claims that Farm St. is perpendicular to every road it intersects on the map.

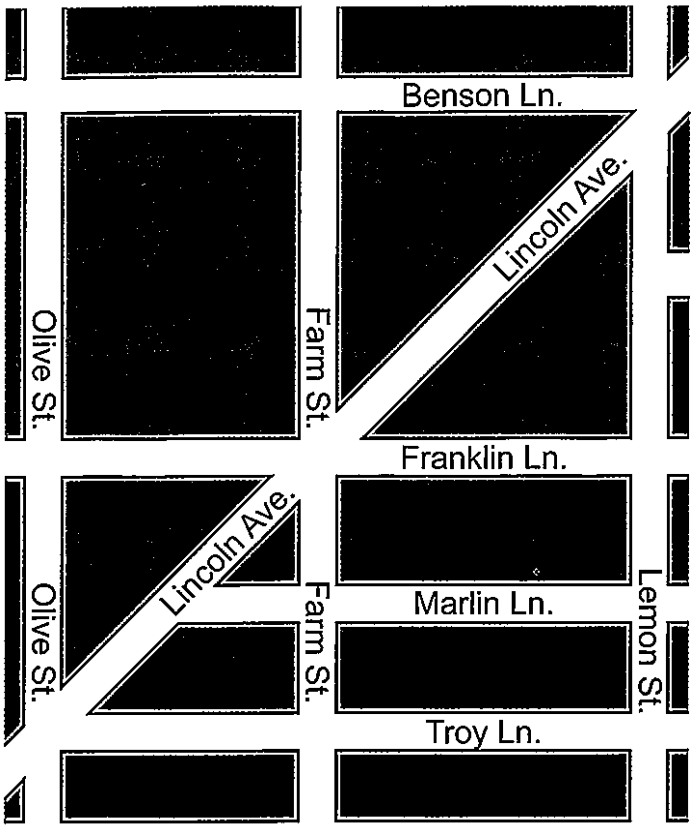
C. Which road proves that Jack's claim is not correct?

farm st. in intersects with troy Ln.

D. Explain why the map does not have a line of symmetry even though it is in the shape of a rectangle.

because a rectangle can have a line of symmetry

25. A map is shown below.



There are right triangles shown on the map.

A. List three roads that form a right triangle.

Farm St.
Olive St. Lincoln Ave.

There are roads that run parallel to Troy Ln. shown on the map.

B. List all the roads that run parallel to Troy Ln.

Lemon St
Farm St. Lincoln Ave. Marlin Ln.

25. ***Continued.*** Please refer to the previous page for task explanation.

Jack claims that Farm St. is perpendicular to every road it intersects on the map.

C. Which road proves that Jack's claim is **not** correct?

Lemon St.

D. Explain why the map does not have a line of symmetry even though it is in the shape of a rectangle.

Because the some St. are closely connected to each other and that is why the map does not have a line