Names			
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Design your own Parallel city

Your group must design a city, on a coordinate grid, with the following requirement:

The city must have:

- → A name and population
- → At least 4 parallel streets, with their equations written and a street name
- \rightarrow At least 3 transversals (which must not all be be parallel to each other, with their equations written) and a streeth name
- → A fire station (COLORED RED) and a mall (COLORED RED) located at alternate interior angles
- → A school (COLORED GREEN) and a park (COLORED GREEN located at consecutive interior angles
- ightarrow A library (COLORED BLUE) and a swimming pool (COLORED BLUE) located at vertical angles
- → A church (COLORED YELLOW) and a car dealership (COLORED YELLOW) located at angles that form a linear pair.
- ightarrow A restaurant (COLORED PURPLE) and a theatre (COLORED PURPLE) located at alternate exterior angles
- → A college (COLORED ORANGE) and a grocery store (COLORED ORANGE) located at corresponding angles
- → A gas station (COLORED BROWN) and a post office (COLORED BROWN) located at congruent angles
- → A police station (COLORED BLACK) and hospital (COLORED BLACK) located at supplementary angles

You must name and indicate the coordinates each of the following buildings from your map

→ Gas Station

→ College

→ Theatre

→ Library

→ Hospital

→ Swimming Pool

→ Grocery Store

→ Fire Station

→ Police Station

→ Restaurant

→ Church

→ Car Dealership

→ School

→ Post office

→ Park

→ Mall

You may use a computer or draw the city by hand. Your city must be drawn on either 8 ½ by 11-inch unruled paper or white poster board. Your city drawing must be legible and neat. You will earn a better grade if you are creative with your images and names. Any cities that include inappropriate names will receive NO credit.

Names			

Calculations

Find the measures of the given angles and justify each step. You must show all your work.

- 1. If the park angle is 55°, what is the school angle?
- 2. If the restaurant angle is 5x + 7 and the theatre angle is 4x + 5, find the angle measures.
- 3. If the police station angle is 3x + 10 and the hospital angle is 6x + 7, find the angle measures.
- 4. If the fire station angle is 7x + 9 and the mall angle is 2x + 6, find the angle measures.
- 5. If the car dealership angle is 3x + 5 and the church angle is 10x + 54, find the angle measures.
- 6. If the college angle is 20x and grocery store angle is 18x + 48, find the angle measures.
- 7. If the school angle is 2x + x and the park angle is 3x + 35, find the angle measures.

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Grading Rubric

Names & Equ	ations / Coordinates:			
• 10 10 10 10 10 10 10 10 10 10 10 10 10	_ (8) Parallel streets	(2) Fire station		
• 10 10 10 10 10 10 10 10 10 10 10 10 10	_ (6): Transversal streets	(2) Church		
	_ (2) Gas station _	(2) Post office		
		(2) Mall		
		(2) Theatre		
		(2) Swimming pool		
- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1 -		(2) Police station		
•1010101010101010101		(2) Car dealership		
	_(2)College	•		
	<u> </u>	(46) TOTAL NAME		
	_ (2) Hospital			
	(5) A fire station and a mall locat (5) A school and a park located at (5) A library and a swimming pool (5) A church and a car dealership (5) A restaurant and a theatre lo (5) A college and a grocery store (5) A gas station and a post offic (5) A police station and hospital lo (40) TOTAL locations	consecutive interior angles located at vertical angles located at linear pair cated at alternate exterior angles located at corresponding angles ce located at congruent angles		
Grade:	(46): TOTAL Nam(40): TOTAL Loc(14): TOTAL Calc	ations		