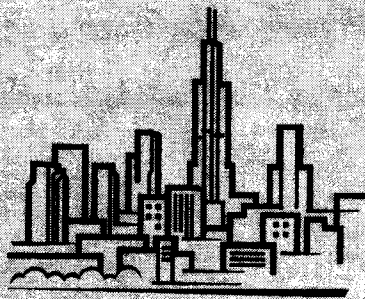


City

Design Project

Parallel Lines & Transversals



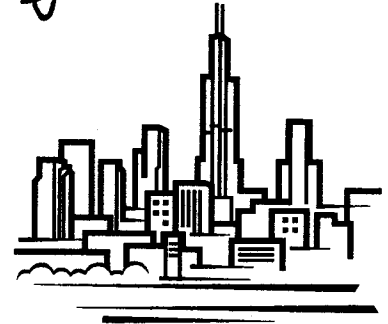
CCSS G-CO.09

Paper by Pixel Paper Prints

Frame by Kandydoodles

# City Design Project

You will design a city using your knowledge of parallel lines, transversals, and special angle pairs.

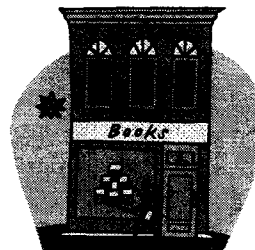


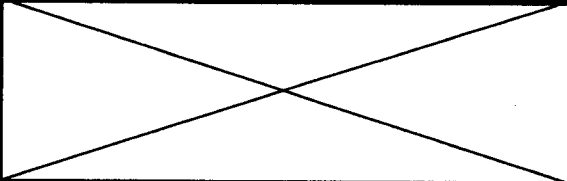
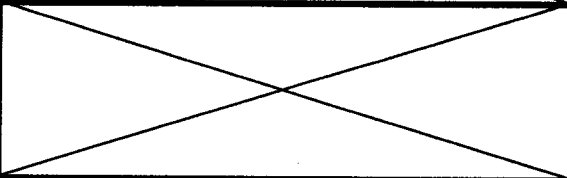
City Specifications (Each city should contain the following):

- 4 - 6 parallel streets
- 2 transversal streets
- Buildings:
  - A Gas Station and a Restaurant on Alternate Exterior Angles
  - A House and a School on Consecutive Interior Angles (Same-Side Interior)
  - A Courthouse and a Bank on Vertical Angles
  - A Store and a Church on Corresponding Angles
- Name your city, streets, and buildings
- Compass (North, South, East, West)

Your city should be created on unlined paper (computer paper, cardstock, poster board, etc.)

Be creative! Use colored pencils, markers, etc.



Structure	Solve for X	Angle Measure	Is the angle measure reasonable for your drawing? Why or Why not?
Alternate Exterior Angles Gas Station ( $3x - 50$ )			
Restaurant ( $2x-5$ )			
Same Side Interior Angles House ( $6x+12$ )			
School ( $2x$ )			
Vertical Angles Courthouse ( $3x-15$ )			
Bank ( $2x+7$ )			
Corresponding Angles Store ( $6x+8$ )			
Church ( $3x+38$ )			

Day 1 Completion	_____ / 10 points
Correct Placement of Buildings	_____ / 20 points
Correction solving for X	_____ / 20 points
Streets Drawn Correctly & All Features Names	_____ / 2 points
Compass Drawn	_____ / 2 points
Correct Angle Measures	_____ / 16 points
Explanations given	_____ / 20 points
Neatness (color, creativity, etc.)	_____ / 5 points
Turned in on Time	_____ / 5 points
<b>Total</b>	_____ / 100 points