

CITY MAP PROJECT

Using a **portrait** layout... Complete the following.

1. Make a 1 inch grid on your paper using a pencil. Do not make the lines too dark.
2. Put a dot at the origin
3. Number the x and y axis with small numbers.
4. Main St. runs through the points (3, 4) and (-1, - 4). Draw and label this street.
Find each of the following: *(Put all answers on the answer sheet provided.)*
 - a. slope
 - b. y-intercept
 - c. Write an equation of the line in slope-intercept form. ($y = mx + b$)
5. Winchester Ave. runs parallel to Main St. and runs through the point (1, 4).
Draw and label this street.
Find each of the following:
 - a. slope
 - b. y-intercept
 - c. Write the equation of the line in slope-intercept form.
6. Sandy Spring Road is perpendicular to Winchester Ave. and Main St. It runs through the point (-2, 5). Draw and label this street.
Find each of the following:
 - a. slope
 - b. y-intercept
 - c. Write the equation of the line in slope-intercept form.
7. At the point (2, -3) sits the center of beautiful Lake Nelson. This lake is in the shape of a circle with a radius of 1 inch. Draw this lake using a compass. Color the lake blue.
Find each of the following:
 - a. If 1 inch represents 500 feet, find the area of the lake.
 - b. If 1 inch represents 500 feet, find the circumference of the lake.
8. Wilson Blvd. has a slope that is undefined, and its x-coordinate is -3. Draw and label this road. Write the equation of this line in Standard Form.
9. The points (-1,0), (-3, 0) and (-3, - 4) form the triangular Briar Patch Park. Draw, color and label this park. If 1 inch represents 500 feet, find the total area of this park.
10. Handley Ave. has a slope of 0, but its y-coordinate is 2. Draw and label this road. List all the streets that will intersect with Handley Ave.
11. Shepard Drive goes from the point (3, -1) and intersects Main St. It then ends at the intersection of Handley Ave. and Winchester Ave. Draw and label this road.
Find the following:
 - a. slope
 - b. Write the equation of the line in slope-intercept form.
12. The famous Louis Armstrong park is located at the points (0, - 4), (0, -5), (3, - 4) and (3, -5). Draw, color and label this park.
If 1 inch represents 500 feet, find:
 - a. the area of the park
 - b. the perimeter of the park
13. Jackson St. is perpendicular to Shepard Drive and runs through the point (1, -2). Draw and label this street.
Find the following:
 - a. slope
 - b. Write the equation of line in slope-intercept form.