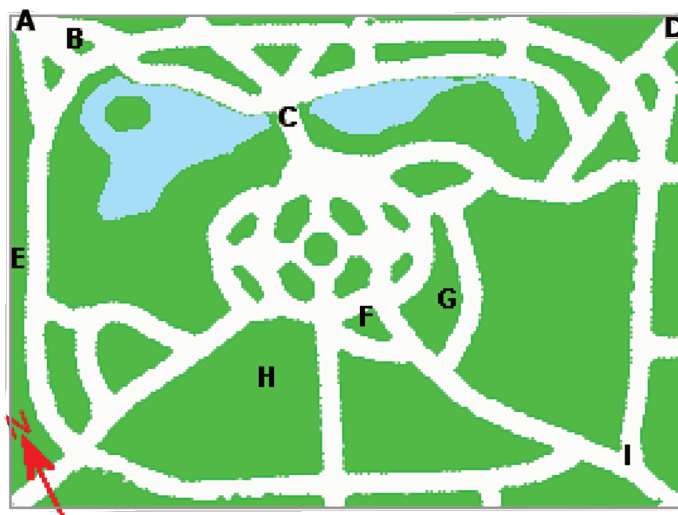


# Lesson 13: Shapes and Play

- Let's design a park.

## Warm-up: Notice and Wonder: A Park

What do you notice? What do you wonder?



## 13.1: Design a Park

Your teacher will give you some dot paper for drawing.

1. The distance from 1 dot to another horizontally or vertically represents 1 yard.  
Connect dots on the grid horizontally or vertically to design a small park that has 5 of these features:
  - a. basketball court
  - b. soccer goal
  - c. swings
  - d. a slide
  - e. an open area
  - f. picnic table
  - g. water play area
  - h. skate park
  - i. a feature of your choice
2. Describe the area and the perimeter of 3 features in the park.

## 13.2: Park Problems

Solve each problem. Explain or show your reasoning.

1. A rectangular playground is 6 yards by 14 yards.
  - a. How much fencing is needed to fence in the playground?
  - b. What is the area of the playground?
  - c. Give another pair of side lengths that would have the same perimeter, but a different area.
2. A rectangular open area in a park is going to have an area of 48 square yards. Give 2 possible perimeters for the rectangular area.