## Heron's Formula



'Jse the information on page [ ] to answer each question.

- 1. Based on the chart, what is the probability of getting:
  - a) no triangle

- b) area more than 10
- 2. What conditions must be satisfied to get a triangle, if the sides have length a, b, and c?
- 3. a) What is the largest area on your chart?
  - b) What is the largest possible area?
  - c) What is the smallest area on your chart?
  - d) What is the smallest possible area?
- 4. What happens if Heron's Formula is used when the sides do not form a triangle? Give examples.
- 5. Given each set of three lengths, indicate whether they will form a triangle, and if so, what kind equilateral, isosceles, or scalene.
  - a. 2, 5, 3

d. 4, 8, 14

b. 9, 7, 13

e. 9, 21, 13

c. 10, 18, 10

f. 7, 7, 7