# **Suzhou Tourist Attractions Problem**

Suzhou, often referred to as the "Venice of the East," is renowned for its classical gardens and traditional water towns. A survey was conducted among tourists visiting Suzhou to understand their preferences. The survey focused on two popular attractions: exploring the "Classical Gardens" and visiting the "Traditional Water Towns."



## From the survey:

- 1. 70% of the tourists explored the Classical Gardens.
- 2. 50% visited the Traditional Water Towns.
- 3. 30% did both activities.

### Questions:

- 1. Draw a Venn diagram to represent the tourists' attraction choices.
- 2. What percentage of tourists explored only the Classical Gardens and did not visit the Traditional Water Towns?
- 3. What percentage of tourists visited only the Traditional Water Towns and did not explore the Classical Gardens?
- 4. Given that a tourist explored the Classical Gardens, what is the conditional probability they also visited the Traditional Water Towns?

## **Shanghai Tourist Activities Problem**

Shanghai is a popular destination for tourists, offering a variety of activities. Three of the most popular activities are visiting the "Oriental Pearl Tower," taking a cruise on the "Huangpu River," and shopping on "Nanjing Road."



A survey of 200 tourists revealed the following:

- 1. 110 tourists visited the Oriental Pearl Tower.
- 2. 80 tourists took a cruise on the Huangpu River.
- 3. 95 tourists shopped on Nanjing Road.
- 4. 50 tourists visited both the Oriental Pearl Tower and took a cruise on the Huangpu River.
- 5. 40 tourists visited both the Oriental Pearl Tower and shopped on Nanjing Road.
- 6. 35 tourists took a cruise on the Huangpu River and shopped on Nanjing Road.
- 7. 20 tourists did all three activities.

#### Questions:

- 1. Draw a Venn diagram to represent the tourists' activity choices.
- 2. How many tourists visited only the Oriental Pearl Tower?
- 3. How many tourists took only a cruise on the Huangpu River?
- 4. How many tourists shopped only on Nanjing Road?
- 5. How many tourists participated in exactly two of the activities?