

# UNIT ACTIVITY:

## HAPPINESS SURVEY

Complete the survey at the end of this activity (or a modified version that your instructor provides). After you have responded to the survey, your instructor will distribute the class data. Answer the following questions based on the class data.

1. Organize the data on rating physical beauty and happiness into a two-way table. Use Happiness for the row variable and Beauty for the column variable. Add the marginal totals to your table.

In the rest of this activity, round percentages to one decimal.

2. What percentage of your class responded Happy? Show the appropriate calculation.

3. What percentage of your class rated the Physical Beauty of your campus or school as Good? Show the appropriate calculation.

4. a. Create a table showing the conditional distribution of Physical Beauty for each level of Happiness.

b. Were Happy students or Unhappy students more likely to respond that the Physical Beauty of campus was good? Support your answer with appropriate percentages. Show how these percentages were calculated.

5. a. Make a bar chart that represents the conditional distributions of Happiness for each level of Physical Beauty. Use a percent scale for the vertical axis and label each bar with its corresponding percent.

b. Write a few sentences describing what can be learned from your bar chart in (a).

6. Write a brief report analyzing the data from the remaining survey question(s). Include analysis of relationships between responses to the remaining survey question(s) and the survey questions involving Physical Beauty and Happiness. Include two-way tables and at least one graphic display in the report.

# HAPPINESS SURVEY

Circle your answers to the following questions:

What is your class year?

Fr    So    Jr    Sr

Rate the physical beauty of your campus (or school):

Bad    OK    Good

Rate your level of happiness today:

Unhappy    So-so    Happy