

Solutions

Chapter 1

Introduction

Answers to Check Your Understanding

page 6: 1. The car in the student parking lot. 2. He measured the car's model (categorical), year (quantitative), color (categorical), number of cylinders (quantitative), gas mileage (quantitative), weight (quantitative), and whether it has a navigation system (categorical).

Answers to Odd-Numbered Introduction Exercises

1.1 Type of wood, type of water repellent, and paint color are categorical. Paint thickness and weathering time are quantitative.

1.3 (a) AP[®] Statistics students who completed a questionnaire on the first day of class. (b) Categorical: gender, handedness, and favorite type of music. Quantitative: height, homework time, and the total value of coins in a student's pocket. (c) The individual is a female who is right-handed. She is 58 inches tall, spends 60 minutes on homework, prefers Alternative music, and has 76 cents in her pocket.

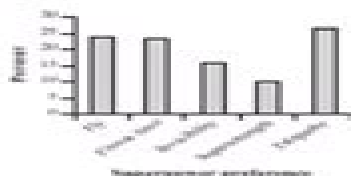
1.5 Student answers will vary. For example, quantitative variables could be graduation rate and student-faculty ratio, and categorical variables could be region of the country and type of institution (2-year college, 4-year college, university).

1.7 b

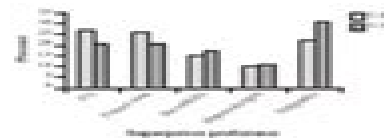
Section 1.1

Answers to Check Your Understanding

page 14: 1. Fly: $99/415 = 23.9\%$; Freeze time: $96/415 = 23.1\%$; Invisibility: $67/415 = 16.1\%$; Superstrength: $43/415 = 10.4\%$; Telepathy: $110/415 = 26.5\%$. 2. A bar graph is shown below. It appears that telepathy, ability to fly, and ability to freeze time were the most popular choices, with about 25% of students choosing each one. Invisibility was the 4th most popular and superstrength was the least popular.



page 18: 1. For the U.K. students: $54/200 = 27\%$ said fly, $52/200 = 26\%$ said freeze time, $30/200 = 15\%$ said invisibility, $20/200 = 10\%$ said superstrength, and $44/200 = 22\%$ said telepathy. For the U.S. students: $45/215 = 20.9\%$ said fly, $44/215 = 20.5\%$ said freeze time, $37/215 = 17.2\%$ said invisibility, $23/215 = 10.7\%$ said superstrength, and $66/215 = 30.7\%$ said telepathy. 2. A bar graph is shown in the next column. 3. There is an association between country of origin and superpower preference. Students in the U.K. are more likely to choose flying and freezing time, while students in the U.S. are more likely to choose invisibility or telepathy. Superstrength is about equally unpopular in both countries.

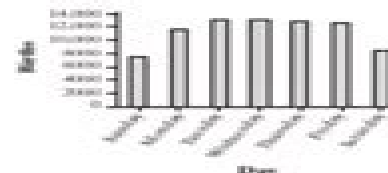


Answers to Odd-Numbered Section 1.1 Exercises

1.9 (a) 1% (b) A bar graph is given below. (c) Yes, because the numbers in the table refer to parts of a single whole.

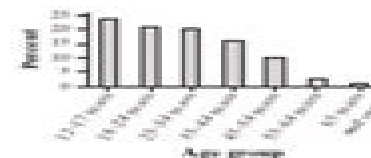


1.11 (a) A bar graph is given below. A pie chart would also be appropriate because the numbers in the table refer to parts of a single whole. (b) Perhaps induced or C-section births are scheduled for weekdays so doctors don't have to work as much on the weekend.

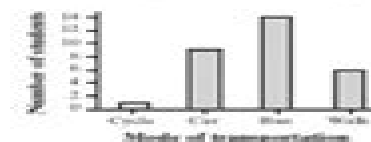


1.13 About 63% are Mexican and 9% are Puerto Rican.

1.15 (a) The green percent represents fractions of different age groups, rather than parts of a single whole. (b) A bar graph is given below.



1.17 (a) The areas of the pictures should be proportional to the numbers of students they represent. (b) A bar graph is given below.



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Emilie Sanchez



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