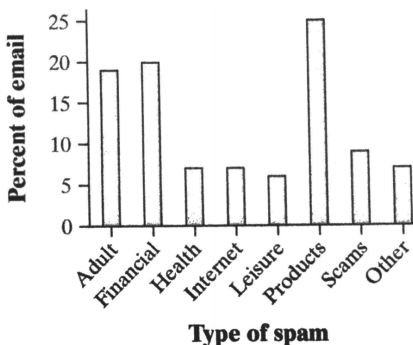Name_____

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

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 had 76 cents in her pocket.

4.
   a. Roller coasters that were opened in a recent year.
   b. Categorical: type and design.
      Quantitative: height, speed, and duration.
   c. The roller coaster is the Prowler, a wood, sit-down-type coaster. Its height is 102.3 feet, its speed is 51.2 mph, and the duration of the ride is 150 seconds long.
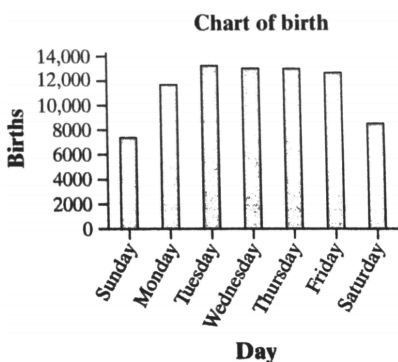
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10.
   a. 7%
   b. A bar graph is shown to the right:

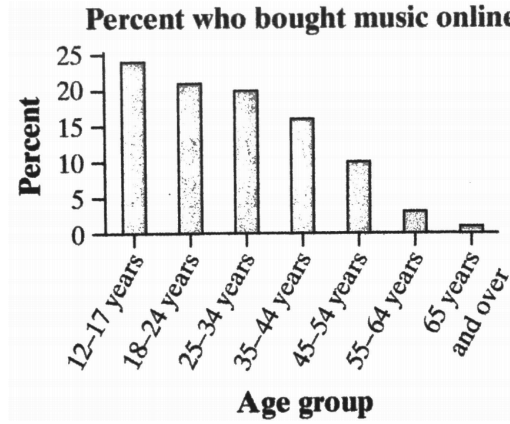   c. Yes, because the numbers in the table refer to parts of a single whole.

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.

15.
   a. The given percents represent fractions of different age groups, rather than parts of a single whole.
   b. A bar graph is shown to the right:

Percent who bought music online

17.
   a. The areas of the pictures should be proportional to the numbers of students they represent.
   b. A bar graph is given below.