

## *Who's Left?*

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As their topic for a group project, Chen, Shana and Jim decide to investigate how many people are left-handed. Since every seventh-grader takes math, they survey each class and record the following data:

<b>Math Class</b>	<b>Students in Class</b>	<b>Left-Handed Students</b>
7A	17	3
7B	26	5
7C	19	1
7D	22	2
7E	22	5
7F	12	3
7G	28	3
7H	25	5
7I	27	4
7J	30	3
7K	11	2
7L	19	2

1.
  - a. How many students are in the 7th grade? What percentage of them are left-handed?
  - b. How can you use this information to estimate the number of left-handed people in a different group?

- c. There are 917 students in the school. About how many of them would you expect to be left-handed?

There are 311 students in the 6th grade. About how many of them would you expect to be left-handed?

There are 23 students in the first period French class. About how many of them would you expect to be left-handed?

- d. Which of the answers in part c do you expect to be closest to the actual number? Why?

2. a. Plot the given data on graph paper. Each 7th grade math class should be represented by a point. Put the number of students in each class along the horizontal axis, and the number of left-handed students along the vertical axis.
- b. A news story reports that 1 out of every 7 people is left-handed. Using this information, plot the expected number of left-handed people for three different-sized groups on the same graph, and connect these three points with a straight line.

How can you tell from your graph which math classes have above-average numbers of left-handed students, and which have below-average numbers?