

NAME: \_\_\_\_\_

1. Explain how to make a circle graph showing the numbers of people who voted for four different candidates if you know how many voted for each candidate.
2. Determine which of the following situations lends itself to display in a circle graph and explain why: per-capita energy use in six different countries; kilowatt-hours used per month by a family; bus ridership per quarter for two different years; percentages of total recycled material at a recycling center that are glass, aluminum, or paper.
3. Jared and Kia wrote articles for the school newspaper. They surveyed students about different issues. Twenty percent of the students said that grades were their biggest worry. Thirty-five percent of the students said that homework was their biggest concern. Forty percent said that they were concerned with the environment. Seventy-five percent said they were optimistic about the future of the country. Jared wanted to make a circle graph to display the results. What was wrong with his idea? How would you display the data?

First, find the total number who voted. Then find the percent of people who voted for each candidate.

- [1] Multiply each percent by 360 to find the measures of the central angles in the circle graph.

In order to make a circle graph, you must be able to find a total and then graph parts of the total. The percentages of total material at a recycling center that are glass, etc., would be most suited to a circle

- [2] graph.

Answers may vary. A circle graph cannot be used because the total of the percents is not 100. The

- [3] students were asked questions on more than one topic. The data could be displayed in a bar graph.