










Key Idea

Data Display	What does it do?	
Pictograph	shows data using pictures	
Bar Graph	shows data in specific categories	
Circle Graph	shows data as parts of a whole	
Line Graph	shows how data change over time	
Histogram	shows frequencies of data values in intervals of the same size	
Stem-and-Leaf Plot	orders numerical data and shows how they are distributed	
Box-and-Whisker Plot	shows the variability of a data set by using quartiles	
Dot Plot	shows the number of times each value occurs in a data set	
Scatter Plot	shows the relationship between two data sets by using ordered pairs in a coordinate plane	

Choosing an Appropriate Data Display

Ex:) Choose an appropriate data display for the situation. Explain your reasoning.

Notes:

A. The number of students in a marching band each year.

B. A comparison of people's shoe sizes and their heights.

OYO:) Choose an appropriate data display for the situation. Explain your reasoning. Notes

A. The population of the United States divided into age groups.

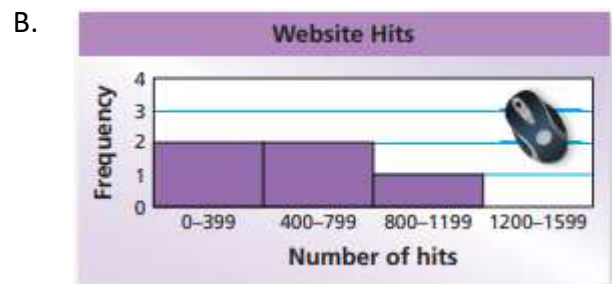
B. The number of students in your school who play basketball, football, soccer, or lacrosse.

Identifying an Appropriate Data Display

Ex:) You record the number of hits for your school's new website for 5 months. Tell whether each data display is appropriate for representing how the number of hits changed during the 5 months. Explain your reasoning.

Notes:

Month	Hits
August	250
September	320
October	485
November	650
December	925



OYO:) Tell whether the data display is appropriate for representing the data in Example 2. Explain your reasoning.

Notes:

A. Dot Plot

B. Circle Graph

C. Stem-and-Leaf Plot

Identifying a Misleading Data Display

Ex:) Which line graph is misleading? Explain.

Notes:



OYO:) Which bar graph is misleading? Explain.

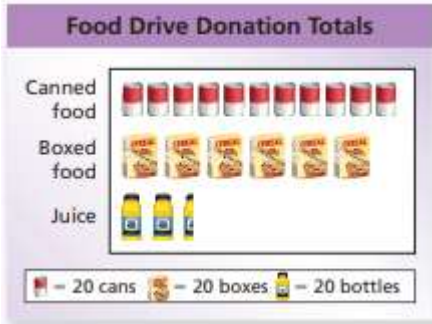


Modeling Real Life

Ex:) The organizer of a food drive creates the pictograph shown.

(a) A volunteer concludes that the number of cans of food and boxes of food donated were about the same. Determine whether this conclusion is accurate. (b) Estimate the number of each item that has been donated.

Notes:



OYO:) An employee at an animal shelter creates the histogram shown. A visitor concludes that the number of 7-year-old to 9-year-old dogs is triple the number of 1-year-old to 3-year-old dogs. Determine whether this conclusion is accurate. Explain.

Notes:

