

Choosing a Data Display



Data Display	What does it do? $\begin{bmatrix} A \\ B \end{bmatrix} \neq A = A = A = A = A = A = A = A = A = A$
Pictograph	shows data using pictures $\begin{bmatrix} c \\ D \end{bmatrix} = \begin{bmatrix} e & e \\ e & e \end{bmatrix}$
Bar Graph	shows data in specific categories
Circle G the data into four equal par quartiles, representing 50% The upper extreme (highest	value) and lower extreme Lower Median Upper Upper
Line Gra (lowest value) form the whis	kers.
This box-and-whisker plot re 12, 13, 14, 14, 15, 16 Upper Extreme: 21 Lower Extreme: 12 Middle Quartile (medic	Upper Quartile (median of upper half): 19 Lower Quartile (median of lower half): 14
Stem-ar	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Box-and	•
Dot Plot	value occurs in a data set
Scatter Plot	shows the relationship between two data sets by using ordered pairs in a coordinate plane



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

a. the number of students in a marching band each year

b. a comparison of people's shoe sizes and their heights

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

1. the population of the United States divided into age groups

2. the percents of students in your school who play basketball, football, soccer, or lacrosse

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

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



b.



Example 2 Cont.



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

3. dot plot**4.** circle graph**5.** stem-and-leaf plot



Which line graph is misleading? Explain.



Which line graph is misleading? Explain.







A volunteer concludes that the numbers of cans of food and boxes of food donated were about the same. Is this conclusion accurate? Explain.

Explain why the data display is misleading.

