

9.2

Choosing a Data Display

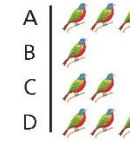
Key Idea

Data Display

Pictograph

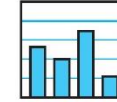
What does it do?

shows data using pictures



Bar Graph

shows data in specific categories



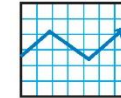
Circle Graph

shows data as parts of a whole



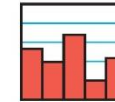
Line Graph

shows how data change over time



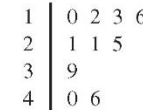
Histogram

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



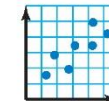
Dot Plot

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



Example 2

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.

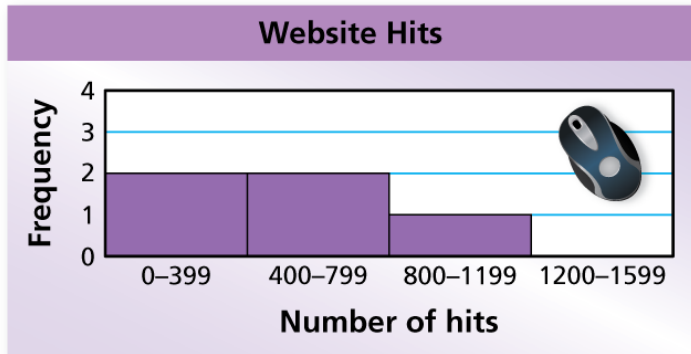


Month	Hits
August	250
September	320
October	485
November	650
December	925

a.



b.



Example 2

Cont.

c.



On Your Own

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

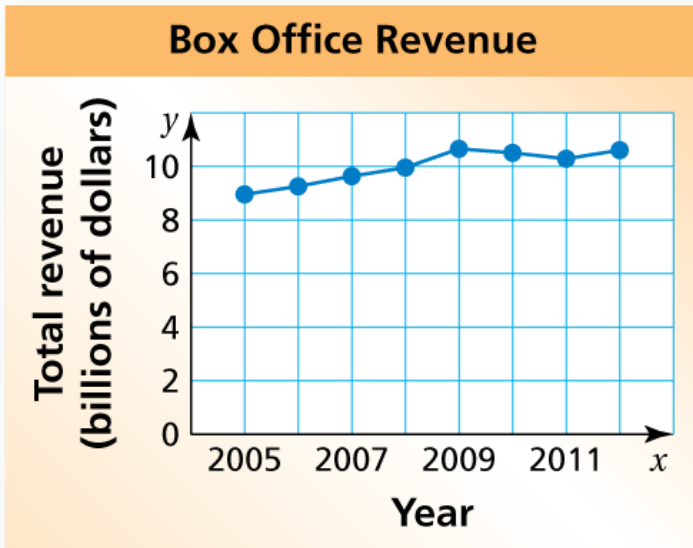
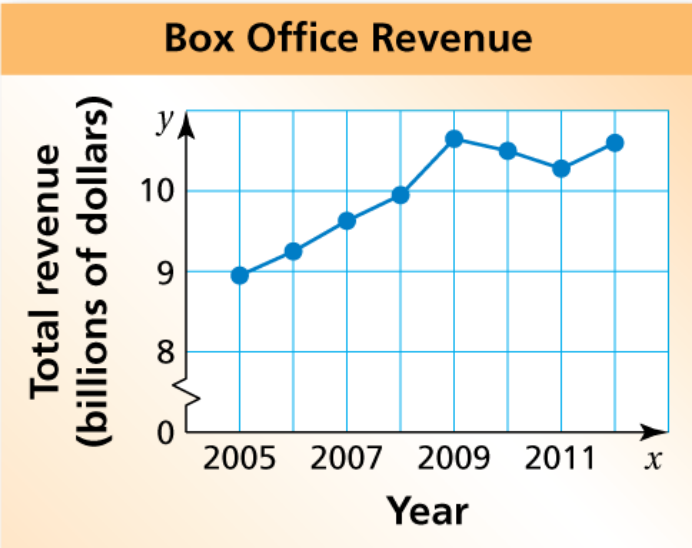
3. dot plot

4. circle graph

5. stem-and-leaf plot

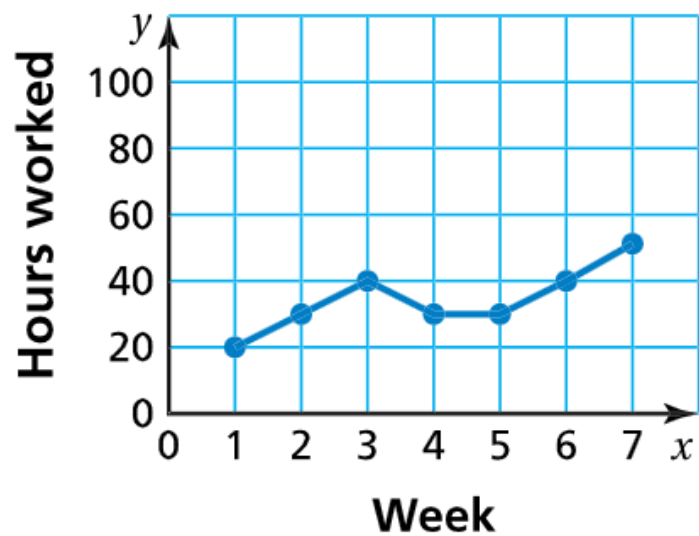
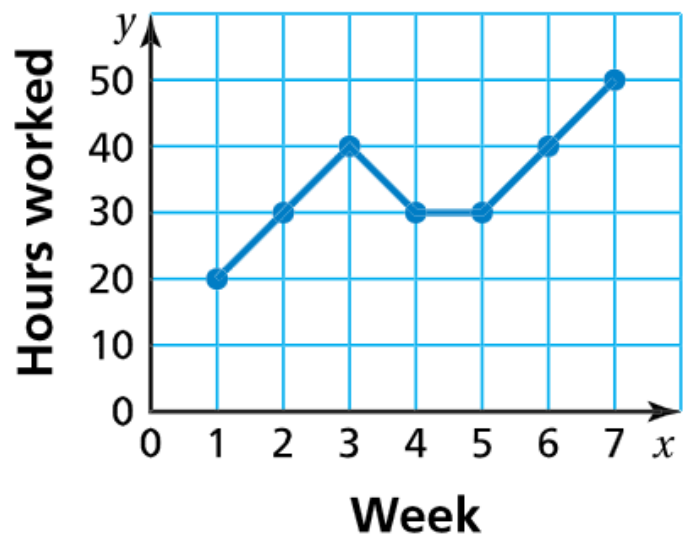
Example 3

Which line graph is misleading? Explain.



On Your Own




Which line graph is misleading? Explain.



Example 4

Food Drive Donation Totals



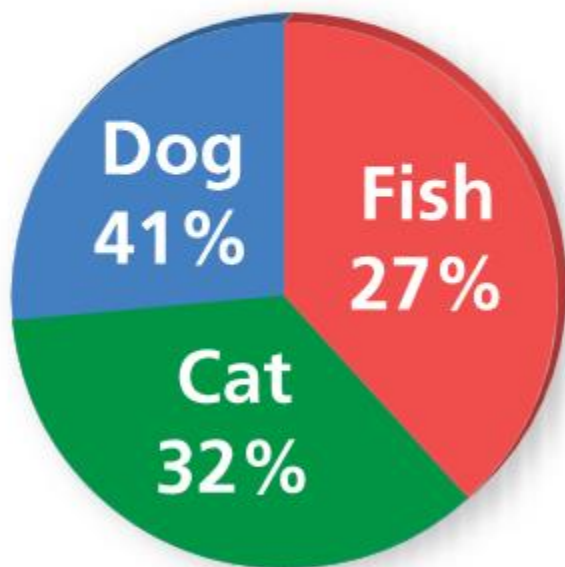
 = 20 cans  = 20 boxes  = 20 bottles

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

On Your Own

Explain why the data display is misleading.

Favorite Pets



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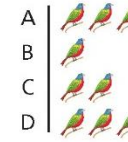
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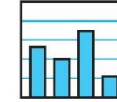
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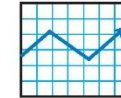
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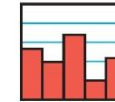
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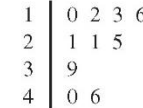
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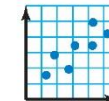
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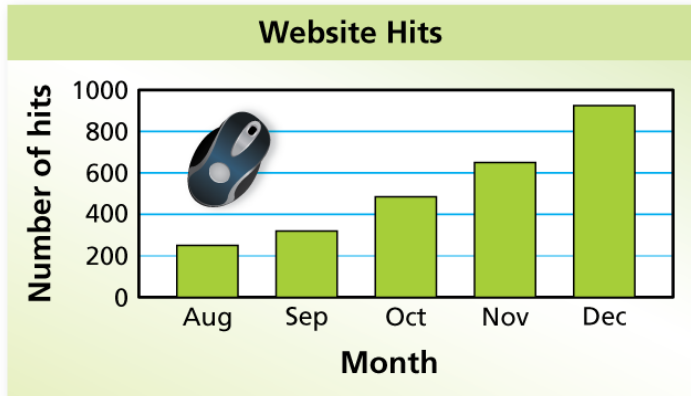
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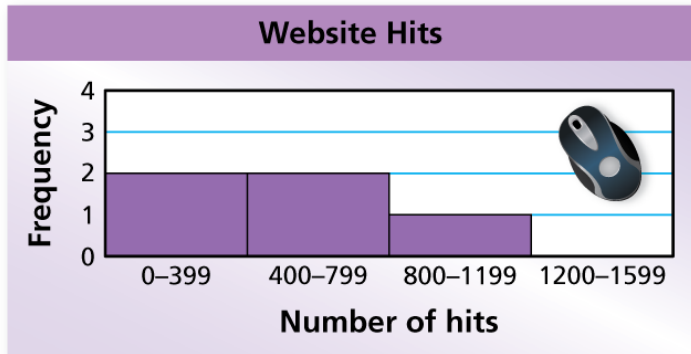


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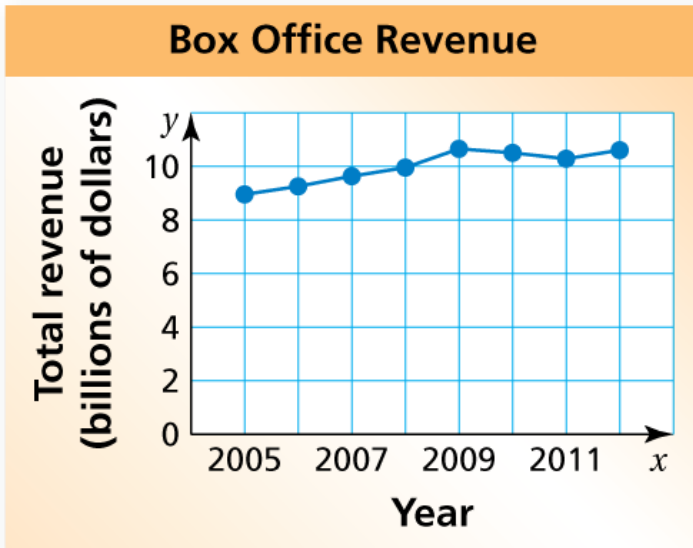
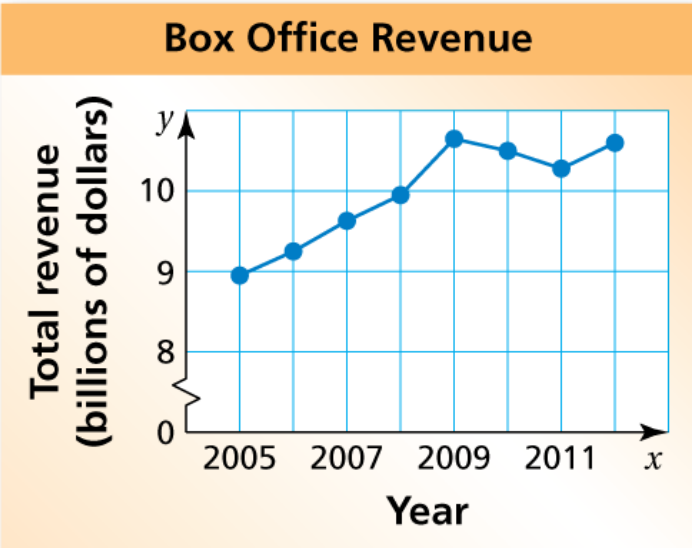
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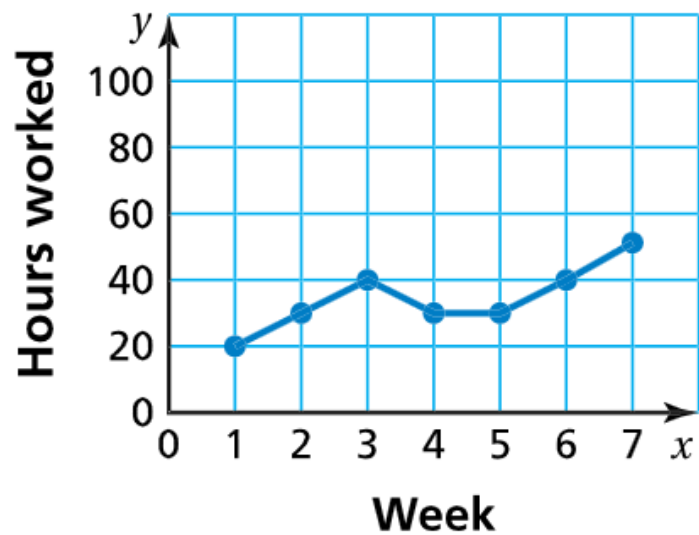
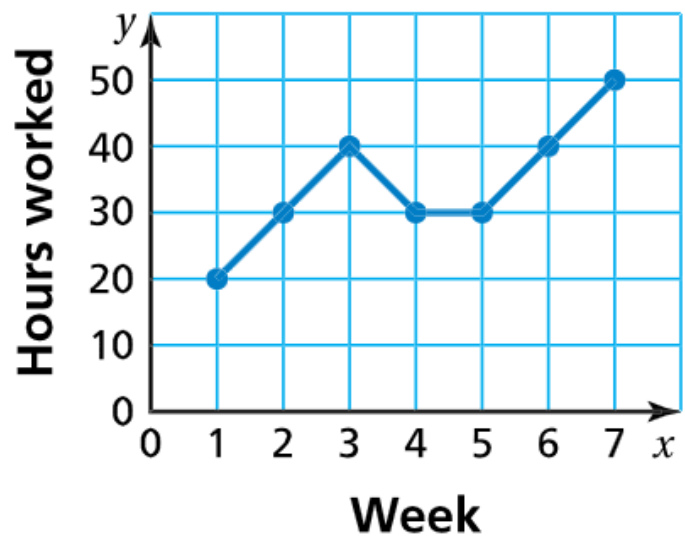
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