## KEY '15 Name Date 4 - Choosing a Data Display – Part 2 KEY CONCEPTS x ### # < ## 0 ## Data Display What does it do? shows data using pictures Stem-and-Leaf Plot orders numerical data and Pictograph 115 shows how they are distributed Inl. shows data in specific categories Bar Graph Box-and-Whisker Plot shows the variability of a data set by using quartiles \*\*!!!

Circle Graph	shows data as parts of a whole	Dot Plot	shows the number of times each	
Line Graph	shows how data change over time		value occurs in a data set	• • • • • • • • • • • • • • • • • • •
Histogram	shows frequencies of data values in intervals of the same size	Scatter Plot	shows the relationship between two data sets by using ordered pairs in a coordinate plane	
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Choose an appropriate data display for the situation. Explain your reasoning.

1) the price of a stock over the last 5 years

2) the numbers of breads, rolls, muffins, and cookies baked this week

3) the number of runners in each 10-year age bracket

4) the comparison of city population and the number of fire stations

5) An EMT wants to use a data display to show students the relationship between the speed of the vehicle and the number of accidents. Choose an appropriate data display for the situation. Explain your reasoning.

6) What type of data display is appropriate for showing the averages of data over a period of time?

Line graph because it shows how data change over time.

7) The home insurance industry wants to use a data display to show the variability in the costs of insurance for a \$200,000 home. Choose an appropriate data display for the situation. Explain your reasoning.

Box and whisker plot because it shows variability of data

8) A nutritionist wants to use a data display to show kindergarteners the recommended amounts of fruits, vegetables, breads, meats, and dairy that should be consumed each day. Choose an appropriate data display for the situation. Explain your reasoning.

Pictograph shows data (in picture form) of specific categories.

9) The Smithsonian has been collecting data over the last 60 days. They want to use a data display to both put the data in order and to display how the data is distributed. Choose an appropriate data display for the situation. Explain your reasoning.

Explain why the data set is misleading.

