Algebra 1 10/6

Warm Up IXL 6th Grade GG.19

0-13 Representing Data

I can represent sets of data using different visual displays

Frequency Table

uses tally marks to record and display frequencies of events

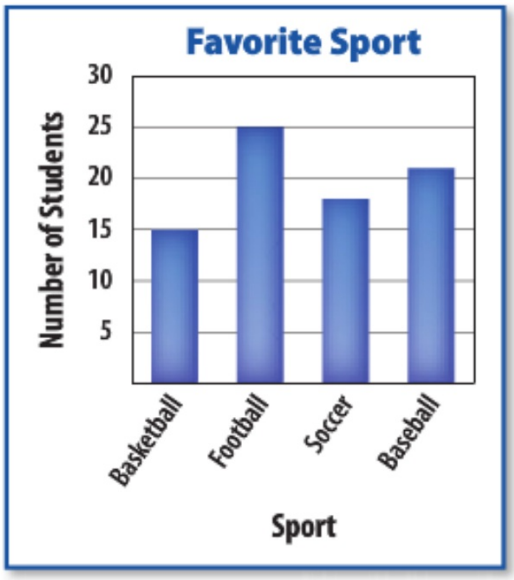
Bar Graph

compares categories of data with bars representing frequencies

Ex. 1

Make a bar graph to display the data.

Sport	Tally	Frequency
basketball	𝍸 𝍸 𝍸	15
football	𝍸 𝍸 𝍸 𝍸 𝍸	25
soccer	𝍸 𝍸 𝍸 III	18
baseball	𝍸 𝍸 𝍸 𝍸 I	21



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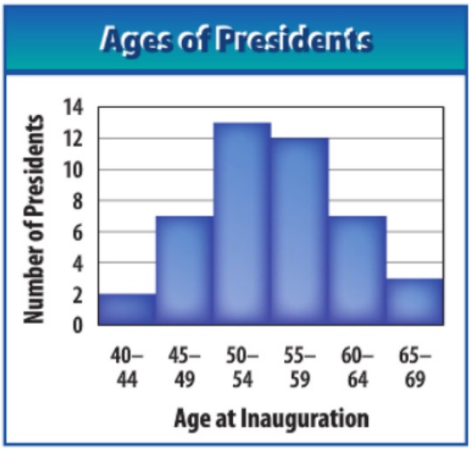
Histogram

is a type of bar graph used to display numerical data that have been organized into equal intervals (pieces).

Unlike a bar graph there are no spaces between the bars on a histogram

Ex. 2 **Make histograms of the frequency and the cumulative frequency.**

Age at Inauguration	40–44	45–49	50–54	55–59	60–64	65–69
U.S. Presidents	2	7	13	12	7	3



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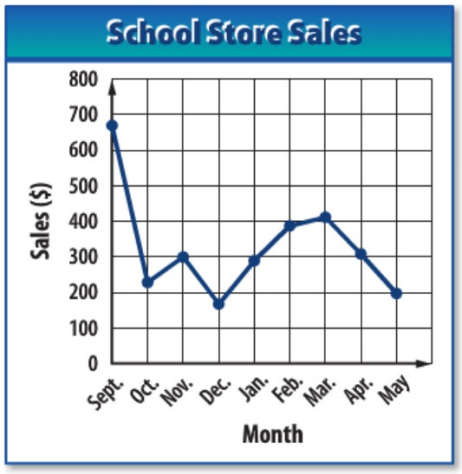
Line Graph

typically shows how data changes ove a period of time

Ex. 3 **Sales at the Marshall High School Store are shown in the table. Make a line graph of the data.**

School Store Sales Amounts					
September	$670	December	$168	March	$412
October	$229	January	$290	April	$309
November	$300	February	$388	May	$198



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Stem-and-Leaf Plot

the digits of the least place value form the leaves and the rest of the digits form the stems

Ex.4

ANIMALS The speeds (mph) of 20 of the fastest land animals are listed at the right. Use the data to make a stem-and-leaf plot.

42	40	40	35	50
32	50	36	50	40
45	70	43	45	32
40	35	61	48	35

Source: *The World Almanac*

Stem	Leaf
3	2 2 5 5 5 6
4	0 0 0 0 2 3 5 5 8
5	0 0 0
6	1
7	0

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Circle Graph (Pie Graph)

is a graph that shows the relationship between parts of the data and the whole.

Ex. 5 **The table shows how Lily spent 8 hours of one day at summer camp. Make a circle graph of the data.**

Summer Camp	
Activity	**Hours**
canoeing	3
crafts	1
eating	2
hiking	2

First, find the ratio that compares the number of hours for each activity to 8. Then multiply each ratio by 360° to find the number of degrees for each section of the graph.

Canoeing: $\frac{3}{8} \cdot 360° = 135°$

Crafts: $\frac{1}{8} \cdot 360° = 45°$

Eating: $\frac{2}{8} \cdot 360° = 90°$

Hiking: $\frac{2}{8} \cdot 360° = 90°$

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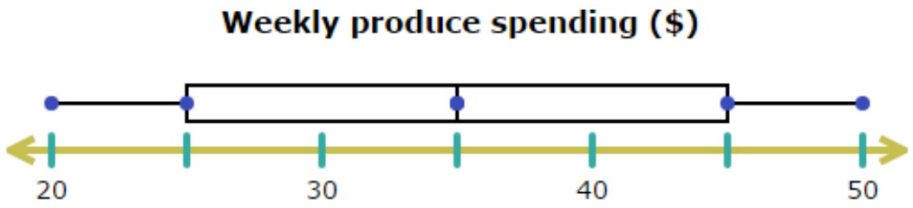
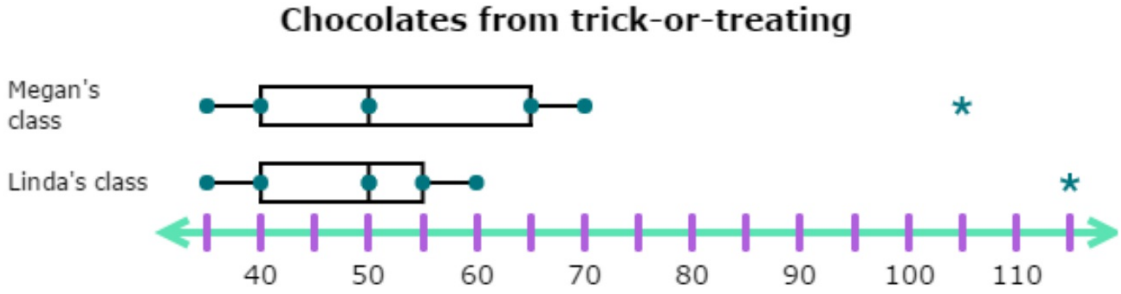
Box-and-Whisker Plot

is a graphical representation of the five-number summary of a data set. (min, Q_1, Q_2/median, Q_3, max).

The box represents the interquartile range (Q_3-Q_1)





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