

DO NOW

What do you remember about statistics?
mean, median, mode

What types of graphs have you created with data?
Line graphs
bar graphs
pie charts

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10.1 Simple Single-Count Statistics

Statistics - Study of data
organize, graph, calculations, predictions
Data - raw information

Frequency Tables:

frequency - # of times or how often
intervals - must be congruent (same size)
* use tally marks in groups of 5 (||||)
range - difference between the highest and lowest

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1. Use the following pieces of raw data to complete the following frequency table.

90 85 74 86 65 62 99 95
77 82 58 83 77 93 73 72
98 66 45 99 50 89 78 70
75 95 80 78 83 81 72 78

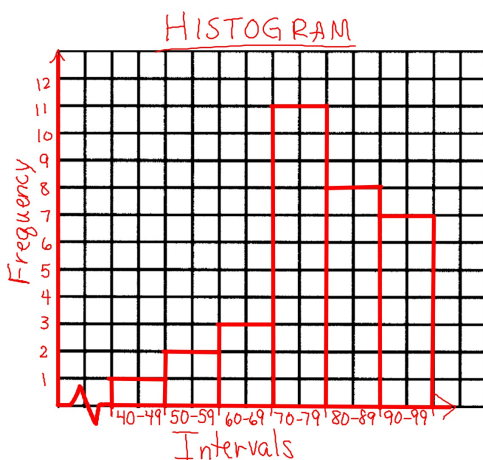
Interval	Tally	Frequency
40 - 49		1
50 - 59		2
60 - 69		3
70 - 79		11
80 - 89		8
90 - 99		7

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Histogram:

- bar graph
- NO SPACE between the bars (they touch)
- DO NOT shade the bars
- Label axes: vertical → frequency
horizontal → intervals
- transfer a frequency table to a bar graph
- MUST be on graph paper
- MUST use a straightedge
- use 2 boxes per bar (interval) on graph paper
- include a "break" on horizontal axis.
↳ never on vertical axis.
- include a title and labels on the axes

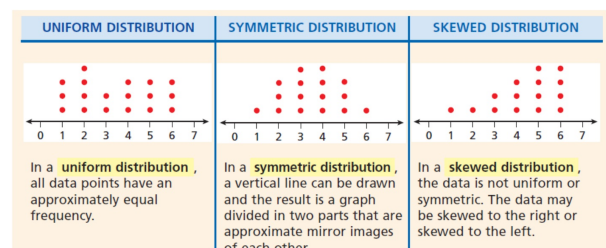
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Dot Plot - not for grouped data

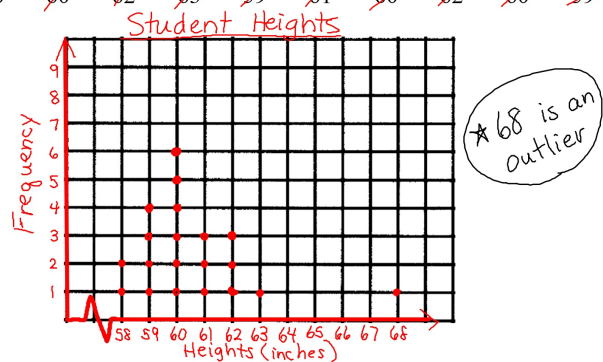
- one dot per piece of data
- generally smaller data sets
- Label axes: vertical → frequency
horizontal → data type
- Types of Distributions



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3. Construct a dot plot to show the student heights, in inches, using the data below.

~~62~~ ~~60~~ ~~58~~ ~~59~~ ~~58~~ ~~59~~ ~~60~~ ~~61~~ ~~68~~ ~~61~~
~~60~~ ~~60~~ ~~62~~ ~~63~~ ~~59~~ ~~61~~ ~~60~~ ~~62~~ ~~60~~ ~~59~~



HOMEWORK

Worksheet - HW 10.1