What's Going On?

Checking In

Minds on Basic Stats

Action! One-Variable and Two-Variable Data

Consolidation Class Data Analysis

Learning Goal - I will be able to distinguish situations requiring one-variable and two-variable analyses.

Hello.

Today we will be getting textbooks for this course. Hooray!

During RAFT, I will be asking small groups to head down to the library, sign out a text, and come back.

Thanks for your cooperation.

Why textbooks?

- 1. It <u>saves printing</u> off excess worksheets that are often only completed by a fraction of the class.
- 2. The <u>solutions</u> to problems are available in the back.
- 3. There are <u>more questions available</u> to students who would like additional practice.
- 4. There are lessons / <u>explanations of</u> <u>concepts</u> within the textbook to help if you were absent or are unclear.

Minds on

Basic Stats

Determine the mean, median and mode of each data set given below.

1 4 2 5 3 7 8 1

2 6 2 8 5 8 6

Mean - The _____ of a set of data _____ by the _____ of data. Commonly referred to as the ______.

Median - The walue in an set of data.

Mode - The Mode - The Common value in a set of data.

Determine the mean, median and mode of each data set given below.

One-Variable and Two-Variable Data

Variable - In statistics, an attribute that can be \(\subsection \) \(\subsectio

One-Variable and Two-Variable Data

Bar Graph - A graph that uses bars to represent data visually. Used to display

Scatter Plot - A graph that compares _____ data. Shows _____ -variable data as _____ shows _____ lotted on a Cartesian plane.

Dot Plot - A statistical graph similar to a

Scatter plot

Used to display

data.

One-Variable and Two-Variable Data

A survey of Grade 12 students included a question asking whether they had part-time jobs. The table shows a tally of the results by home form.

a. Identify the variables.)

Home Form
11 categorical!

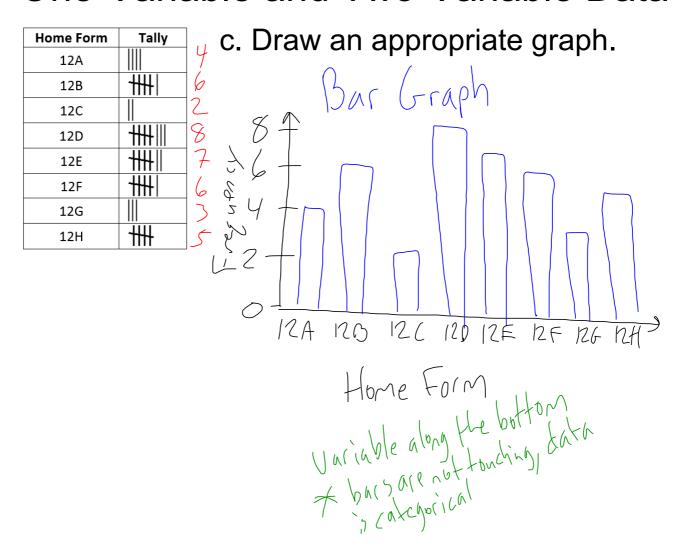
b. What type of graph should be used to display the data? Why?

- Bur Graph

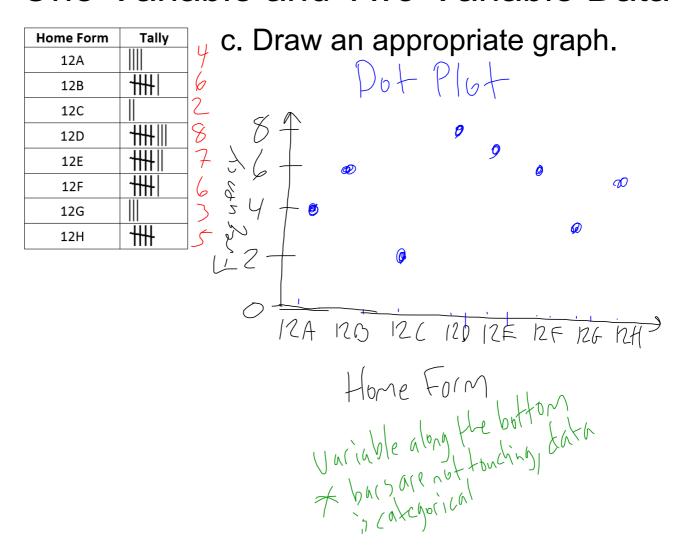
- Pb+ P/6+

Home Form	Tally
12A	
12B	#
12C	
12D	##
12E	##
12F	#
12G	
12H	##

One-Variable and Two-Variable Data



One-Variable and Two-Variable Data



Two-Variable Data Sets

Action!

One-Variable and Two-Variable Data

Home Form	Tally
12A	
12B	
12C	
12D	##
12E	
12F	
12G	
12H	##

d. Give two descriptive statements about this data set.

Home form 12D has the most students with jobs.

Home form 12G has fewer students with jobs than home form 12E.

One-Variable and Two-Variable Data

The table below shows the results of a survey of 15 teenagers.

Age (years)	14	16	17	15	18	19	19	18	13	15	16	16	16	14	17
Physical Activity (hours)	3	0	4	10	1	6	5	9	10	0	0	14	10	7	0

a. Identify the variable(s).

Age (years) and Amount of Physical Activity (hours)

b. What type of graph would be appropriate for this data set? Why?

Scatter plot: We have

fub related numerical

One-Variable and Two-Variable Data

The table below shows the results of a survey of 15 teenagers.

Age (years)	14	16	17	15	18	19	19	18	13	15	16	16	16	14	17
Physical Activity (hours)	3	0	4	10	1	6	5	9	10	0	0	14	10	7	0

c. Pose a question that would require one-variable data analysis.

What was the average number of hours

of physical activity.

d. Pose a question that would require two-

variable data analysis.
How 2025 the number of hours
of physical activity relate to age.

Consolidation

Homework!

Two-Variable Data Sets

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2, 5, 7, 9