Today's Plan:

Learning Target (standard): I will use the measures of center to describe a data set.

Students will: Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work, take notes over new material and complete practice problems over new concepts.

Teacher will: Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide examples of new concepts and assign students assessment problems over new concepts.

Assessment: Board work, homework check and homework assignment

Differentiation: Students will work at the board, go over and correct homework at their seats, actively engage in lecture over new concepts, practice new concepts with the aid of other students and the teacher and complete homework assignment.

NAME _____ #46

$2y = -4x+4$

1.) Solve the equation for y.

$11x + 2y = 7x + 4$

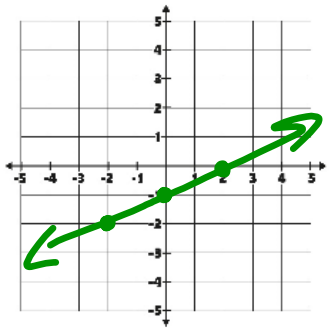
$-11x \quad -11x$

$y = -2x+2$

2.) Graph $y = \frac{1}{2}x - 1$.

$m = \frac{1}{2}$

$I_y: (0,-1)$



3.) Complete the table.

X	-2	-1	0	1	2
2x - 1	-5	-3	-1	1	3

8) Age at First Job

Age	Frequency
14	2
15	2
16	1
17	5
18	4
22	1

① ~~14,14,15,15,16,~~ 17, ~~17,17,18,18,18,18,22~~

② $\text{mean}(\bar{x}) = \frac{253}{15} = 16.867$ years

③ median = 17 years

④ mode = 17 years

Find the mean, median, mode & range.

11) Hits in a Round of Hacky Sack

Hits	Frequency
2	2
3	2
4	1
5	4
6	3
10	1
13	1
19	1

mean = $\frac{94}{15} = 6.267 hits$

median = 5 hits

mode = 5 hits

19 − 2 = 17

range = 17 hits

2 2 3 3 4 5 5 5 5 6 6 6 10 13 19

2) Minutes to Run 5km

~~31.2~~ ~~31.6~~ ~~29.5~~ ~~41.7~~ ~~31.6~~
~~44.8~~ ~~38.9~~ ~~36.1~~ ~~47.6~~ ~~22.4~~
~~45~~ ~~35~~ ~~24.8~~ ~~44.5~~ ~~29.6~~
~~29.2~~

① ~~22.4~~, ~~24.8~~, ~~29.2~~, ~~29.6~~, ~~31.2~~, ~~31.6~~, ~~31.6~~
35, 36.1, ~~38.9~~, ~~39.3~~, ~~41.7~~, ~~44.5~~, ~~44.8~~,
~~45~~, ~~47.6~~

② $\text{mean}(\bar{x}) = \frac{573.3}{16} = 35.831$ minutes

③ $\text{median} = \frac{35 + 36.1}{2} = \frac{71.1}{2} = 35.55$ minutes

④ mode = 31.6 minutes

⑤ range = 47.6 - 22.4 = 25.2 minutes

-1-

Find the mode, median, and mean for each data set.

1) Annual Precipitation (Inches)

Stem	Leaf
1	0 1
2	9 9
3	2
4	5 7 8
5	3 6 6 9
6	1 2 8

Key: 4|5 = 45

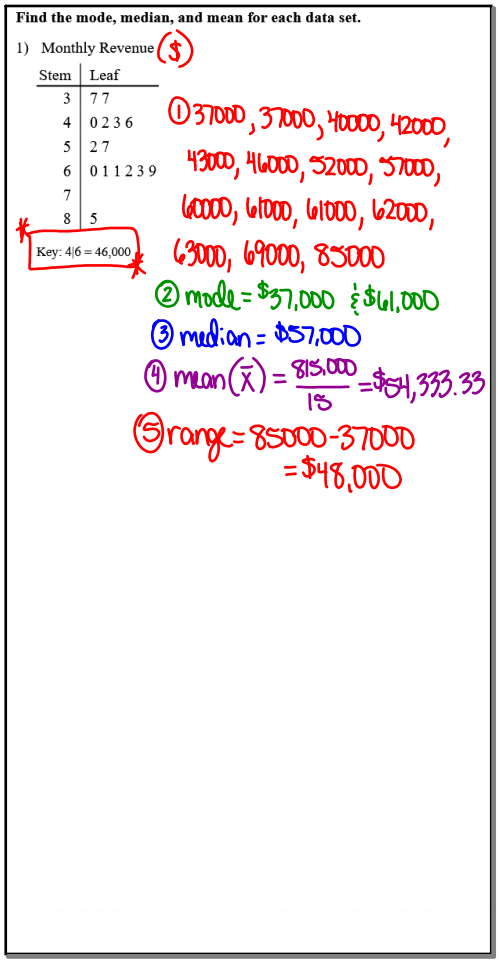
① data:
~~10~~, ~~11~~, ~~29~~, ~~29~~, ~~32~~, ~~45~~, ~~47~~, 48,
~~55~~, ~~56~~, ~~56~~, ~~59~~, ~~61~~, ~~62~~, ~~68~~

② mode: 29 inches & 56 inches
"bimodal"

③ median: 48 inches

④ $\text{mean}(\bar{x}) = \frac{666}{15} = 44.4$ inches

⑤ range = 68 - 10 = 58 inches



Find the mode, median, and mean for each data set.

1) Monthly Revenue ($)

Stem	Leaf
3	7 7
4	0 2 3 6
5	2 7
6	0 1 1 2 3 9
7	
8	5

Key: 4|6 = 46,000

① 37000, 37000, 40000, 42000, 43000, 46000, 52000, 57000, 60000, 61000, 61000, 62000, 63000, 69000, 85000

② mode = $37,000 & $61,000

③ median = $57,000

④ mean $(\bar{x}) = \frac{815,000}{15} = \$54,333.33$

⑤ range = 85000 − 37000 = $48,000

Assignment:

Measures of Center

Stem-and-Leaf Plots #1-5