

Today's Plan:

Learning Target (standard): I will calculate the 5-number summary for a set of data and use it to create a box-and-whisker plot.

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, and complete practice problems.

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 review 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 review concepts with the aid of other students and the teacher and complete homework assignment.

NAME _____

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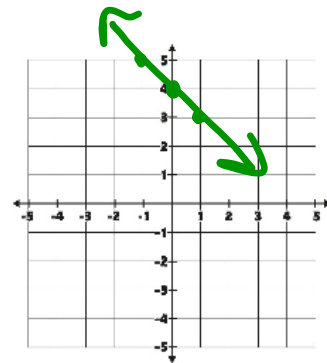
$\frac{7}{100}, \frac{3}{5}, \frac{7}{10}, .71, 0.75$ **BELL RINGER**

1.) Order the numbers from least to greatest:
0.75, $\frac{7}{10}$, $\frac{3}{5}$, $\frac{7}{100}$, 0.71

0.7 0.6 .07

2.) Graph $y = -x + 4$.

$m = -1$
 y -int: $(0, 4)$



3.) Solve $\frac{1}{2}(4x - 2) = 3$.

$$2x - 1 = 3$$

$$2x = 4$$

$$x = 2$$

Calculate the 5-number summary for the given data set. Use the 5-number summary to create a box-and-whisker plot.

6) Nobel Laureates

37, 40, 44, 50, 53, 57, 58, 68, 71, 74

① minimum = 37 years

④ $Q_1 = 44$ years

③ $Q_2 = \frac{53+57}{2} = \frac{110}{2} = 55$ years

⑤ $Q_3 = 68$ years

② maximum = 74 years

$IQR = Q_3 - Q_1 = 68 - 44$
IQR = 24 years

Nobel Laureates

Age (years)

Calculate the 5-number summary for the given data set. Use the 5-number summary to create a box-and-whisker plot.

7) Minutes to Run 5km

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

Key: 2|7 = 27

8) Life Expectancy by Country

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

Key: 7|4 = 74

minimum = 18 minutes

$Q_1 = 24$ minutes

$Q_2 = 31$ minutes

$Q_3 = 35$ minutes

maximum = 45 minutes

$IQR = 35 - 24 = 11$ minutes

minimum = 53 years

$Q_1 = 66$ years

$Q_2 = 75$ years

$Q_3 = 76$ years

maximum = 81 years

IQR = 10 years

Assignment:

Box-and-Whisker Plots 2

#1-4

* Write the data in numerical order first and then write out the 5-number summary and the IQR. Use these to create a box-and-whisker plot *