

PAP Weekly Project 1.1

Mean Absolute Deviation

The following data lists each month and the corresponding average monthly temperature for a particular city. Analyze the data below by finding the mean and mean absolute deviation of each city. SHOW YOUR WORK on a separate sheet of paper and staple to this paper.

City 1

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg. Temp. (°F)	-10	-4	11	32	49	60	62	56	45	24	2	-6

Mean = _____

M.A.D. = _____

City 2

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg. Temp. (°F)	72	72	73	75	76	78	80	80	79	78	76	73

Mean = _____

M.A.D. = _____

City 3

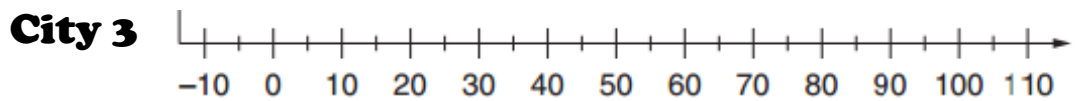
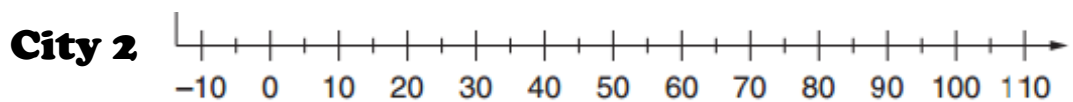
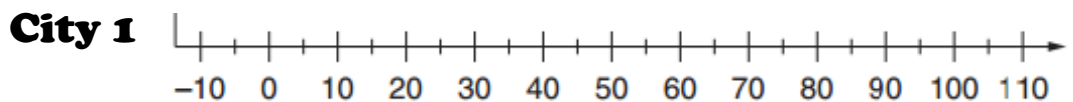
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Avg. Temp. (°F)	54	58	63	70	79	89	93	91	86	75	62	54

Mean = _____

M.A.D. = _____

Assign each city a color. Plot each 12 average monthly temperature points on the line plot next to their city number. Use a carat (^) to mark the mean.

KEY	
<input type="checkbox"/>	City 1
<input type="checkbox"/>	City 2
<input type="checkbox"/>	City 3
^	Mean



Temperature (°F)

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The three cities represented on the graphs are Chicago, Illinois; Fairbanks, Alaska; and Phoenix, Arizona. Use the data to predict which data set comes from which city. Use the measures of spread to justify your decisions.


I think City 1 is _____ because _____

I think City 2 is _____ because _____

I think City 3 is _____ because _____

Formulating Equations and Inequalities

Write two real-world problems using the same values and operations to solve. One problem should be represented by a two-step equation, the second should be represented by a two-step inequality. Record the equation and inequality that represent each problem, and then graph the solutions on the number lines.

Equation Word Problem
Equation
Graph 

Inequality Word Problem
Inequality
Graph 