

3.11.20

Grab a calculator.

At The Bell: **PSSA:**

Which expression is equivalent to $\frac{2^3 \cdot 5^2}{2^5 \cdot 3 \cdot 5^4}$?

A. $\frac{1}{2^5}$

B. $\frac{2^3}{3 \cdot 5^4}$

C. $\frac{2^2 \cdot 5^2}{3}$

D. $\frac{1}{2^2 \cdot 3 \cdot 5^2}$

$$\frac{2 \cdot 2 \cdot 2 \cdot 5 \cdot 5}{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 5 \cdot 5 \cdot 5 \cdot 5}$$
$$\frac{1}{2^2 \cdot 3 \cdot 5^2}$$

Math 8 (Swanick)

Name _____

9-3 & 9-4 Review

Date _____ Period _____

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

1) Age of Nobel Laureates

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

Key: 4|9 = 49

2) Mens Heights (Inches)

67	69	76	70	72	63	79
68	67	75	68	70	72	68
70	69	65				

3)

Average Lifespan

Animal	Years
Teal	20
Camel	50
Grey Cheeked Parrot	15
Mallard	20

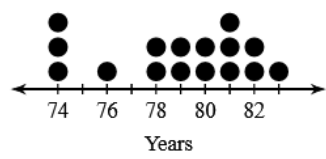
Animal	Years
Gorilla	20
Ox	20
Macaw	50

Animal	Years
Eagle	55
Carp	100
Toad	36

Animal	Years
Ferret	12
Humming Bird	8
Giant Tortoise	152

Animal	Years
Human	75
Cobra	28
Pigeon	11

4) Life Expectancy by State



5) Monthly Revenue

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

Key: 3|6 = 36,000

6) Age at First Job

14	18	16	15	18	17	15
21	16	15	18	17	17	15
22	13	17				

Draw a box-and-whisker plot for each data set. State the min, Q1, Q2, Q3, and max.

7) # Words in Book Titles

2 1 3 4 5 2 1 4
2 3 2 6 3 4 4

8) Educational Attainment by US State

State	% Bachelor's Degree
New York	32.4
North Carolina	26.5
Missouri	25.2
Minnesota	31.5
Idaho	23.9
Nevada	21.8

State	% Bachelor's Degree
Florida	25.3
Maine	26.9
California	29.9
Alaska	26.6
Maryland	35.7
Wyoming	34.5

State	% Bachelor's Degree
Mississippi	19.6
Delaware	28.7
Connecticut	35.6
Texas	25.5
Wisconsin	25.7

9) Shoe Size

9 9 4 8.5 6.5 8 8.5
9 8 6 7.5 7 7.5 6
5.5 7

10)

Age Assumed Office

Senator	Age	Senator	Age	Senator	Age	Senator	Age
Chuck Schumer	48	Orrin Hatch	42	David Vitter	43	Ben Cardin	63
Dianne Feinstein	59	Marco Rubio	39	Jay Rockefeller	47	Michael Bennet	44
Richard Shelby	52	Debbie Stabenow	50	Barbara Mikulski	50	Jim Inhofe	60
Mitch McConnell	42	Susan Collins	44	Cory Booker	44		

Find the lower quartile, upper quartile, and interquartile range for each data set.

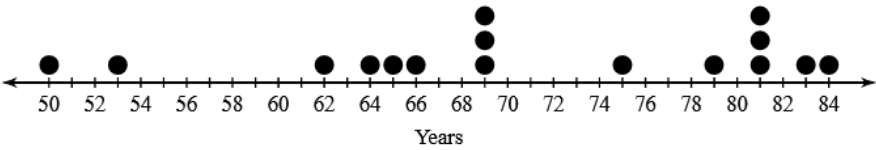
11)

Single Family Home Prices

166,600	153,900	148,900	161,600
140,200	168,400	158,800	156,800
153,800	191,000	178,900	168,000
170,800	156,700	159,500	141,000
190,500			

12)

Life Expectancy by Country



Assignment:
Study!

Math 8 (Swanick)

Name _____

9-3 & 9-4 Review

Date _____ Period _____

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

1) Age of Nobel Laureates

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

Key: 4|9 = 49

Mode = 49, Median = 54,
Mean = 54.59 and Range = 40

2) Mens Heights (Inches)

67	69	76	70	72	63	79
68	67	75	68	70	72	68
70	69	65				

Mode = 68 and 70, Median = 69,
Mean = 69.88 and Range = 16

3)

Average Lifespan

Animal	Years
Teal	20
Camel	50
Grey Cheeked Parrot	15
Mallard	20

Animal	Years
Gorilla	20
Ox	20
Macaw	50

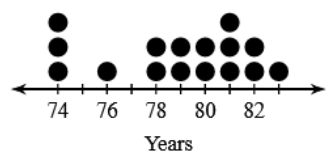
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Eagle	55
Carp	100
Toad	36

Animal	Years
Ferret	12
Humming Bird	8
Giant Tortoise	152

Animal	Years
Human	75
Cobra	28
Pigeon	11

Mode = 20, Median = 24, Mean = 42 and Range = 144

4) Life Expectancy by State



Mode = 74 and 81,
Median = 79.5, Mean = 78.88
and Range = 9

5) Monthly Revenue

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

Key: 3|6 = 36,000

Mode = 48,000,
Median = 44,000,
Mean = 44,375 and
Range = 52,000

6) Age at First Job

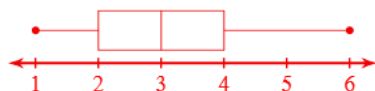
14	18	16	15	18	17	15
21	16	15	18	17	17	15
22	13	17				

Mode = 15 and 17, Median = 17,
Mean = 16.71 and Range = 9

Draw a box-and-whisker plot for each data set. State the min, Q1, Q2, Q3, and max.

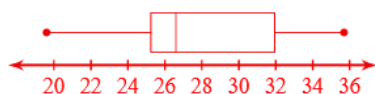
7) # Words in Book Titles

2 1 3 4 5 2 1 4
2 3 2 6 3 4 4



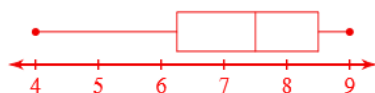
8) Educational Attainment by US State

State	% Bachelor's Degree	State	% Bachelor's Degree	State	% Bachelor's Degree
New York	32.4	Florida	25.3	Mississippi	19.6
North Carolina	26.5	Maine	26.9	Delaware	28.7
Missouri	25.2	California	29.9	Connecticut	35.6
Minnesota	31.5	Alaska	26.6	Texas	25.5
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Nevada	21.8	Wyoming	34.5		



9) Shoe Size

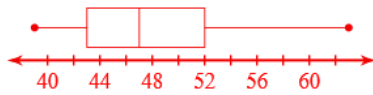
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Richard Shelby	52	Debbie Stabenow	50	Barbara Mikulski	50	Jim Inhofe	60
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Find the lower quartile, upper quartile, and interquartile range for each data set.

11)

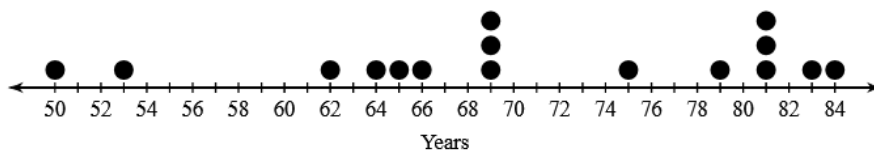
Single Family Home Prices

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 140,200 168,400 158,800 156,800
 153,800 191,000 178,900 168,000
 170,800 156,700 159,500 141,000
 190,500

$Q_1 = 153,850$, $Q_3 = 169,600$ and
 $IQR = 15,750$

12)

Life Expectancy by Country



$Q_1 = 64.5$, $Q_3 = 81$ and $IQR = 16.5$