

Math 1 – Chapter 7 Review

[You are welcome to use the [One Quantitative Variable Statistics Applet](https://srhsmath.yolasite.com/Math-1.php) at <https://srhsmath.yolasite.com/Math-1.php>]

1. For the given data set [20, 15, 36, 49, 17, 17, 33, 24, 37, 10] find the...

- a) Mean: _____
- b) Median: _____
- c) Mode: _____
- d) Standard Deviation: _____
- e) IQR: _____

2. Find the 5-number summary for the given data for the number of squirrels found on the SRHS campus each month: [25, 25, 26, 29, 17, 17, 23, 24, 27, 20].

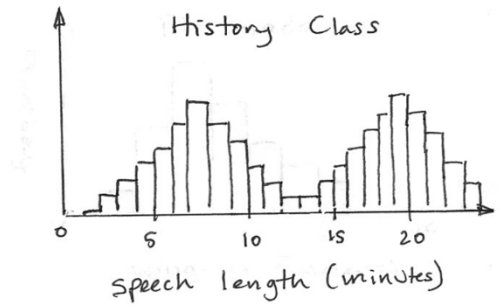
3. Draw a box-and-whisker plot for the given data for the number of squirrels found on the SRHS campus each month: [25, 25, 26, 29, 17, 17, 23, 24, 27, 20].



- 4.
- a. For a distribution that is **skewed**, which measure of **center** should you use ?
 - b. For a distribution that is **skewed**, which measure of **spread** should you use ?
 - c. For a distribution that is **symmetric**, which measure of **center** should you use ?
 - d. For a distribution that is **symmetric**, which measure of **spread** should you use ?

5. Describe the distribution:

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6. Complete the table about animals and their snack preferences:

	M&Ms	Skittles	Smarties	Total
Sheep	41	15		68
Goat	6			
Total		32		178

7. Answer the following questions about how some SRHS students get to school

	9 th grade	10 th grade	11 th grade	12 th grade	Total
Bus	13	15	8	6	42
Car	24	23	32	35	114
Walk	27	33	28	23	111
Total	64	71	68	64	267

- a. What percent of surveyed students use a car to get to school ?
- b. What percent of students are in 12th grade ?
- c. What percent of 12th graders use a car to get to school ?
- d. What percent of those who use a car to get to school are in the 12th grade ?

7. Construct a histogram to display data on Radish diameter (in mm)
[32, 33, 16, 4, 57, 40, 28, 54, 17, 31, 22, 58, 29, 43, 41, 45, 34, 44]



9. Solve the equation: $5(2x - 7) = 6x + 1$ [Show your work]

10. Solve the equation: $|d| = 37$

11. The population of wombats at SRHS was 12 in 2000 and has increased by 2% each year.

a. Write a function to model this situation.

b. Use your model to predict how many seagulls are at SRHS in 2021

12. Write an equation of the line through the points $(7, -8)$ and $(28, 6)$ [Show your work]

13. Evaluate the function $f(x) = 11x - 4$ for $x = 6$