Box Plot and Five Number Summary

California Residents Life Span

The following data is representing a sample of California Residents lifespan in years.

68, 45, 80, 34, 55, 67, 68, 88, 90, 25, 36, 45, 52, 68, 65, 70, 72, 45, 52, 89, 97, 64

Determine the following.

1. Mean. **Approximate to the nearest tenths.**
2. Standard Deviation. **Approximate to the nearest tenths.**
3. Range.
4. Five Number Summary.
5. Interquartile range **(IQR)**.
6. Draw a **Histogram** with **Bin Width =10** and a **box plot** in **Desmos** for this distribution.
7. How would you describe this distribution **(left skew, right skew, normal)?**
8. What are the outliers, if any?

Sleep Time

The following data represents the amount of sleep time in hours for college students.

6, 0, 7, 4, 6, 7, 7, 6, 5, 8, 10, 4, 8, 5, 6,7,6, 7, 7, 5, 8, 6, 0, 7, 5, 4

Determine the following.

9. Mean. **Approximate to the nearest tenths.**
10. Standard Deviation. **Approximate to the nearest tenths.**
11. Range.
12. Five Number Summary.
13. Interquartile range **(IQR)**.
14. Draw a **Histogram** with **Bin Width =1** and a **box plot** in **Desmos** for this distribution.
15. How would you describe this distribution **(left skew, right skew, normal)?**
16. What are the outliers, if any?

Annual Rainfall (inches) for St. Vegas

The following table illustrates the annual rainfall in inches for the fictional town of St. Vegas. Answer the following questions.

Year	Inches
2000	14.7
2001	12.8
2002	13.6
2003	6.5
2004	12.2
2005	10.8
2006	16.5
2007	13.2
2008	7.8
2009	14.9
2010	22.3
2011	5.4
2012	10.9

Determine the following.

17. Mean. **Approximate to the nearest tenths.**
18. Standard Deviation. **Approximate to the nearest tenths.**
19. Range.
20. Five Number Summary.
21. Interquartile range **(IQR)**.
22. Draw a **Histogram** with **Bin Width =2** and **box plot** in **Desmos** for this distribution.
23. How would you describe this distribution **(left skew, right skew, normal)?**
24. What are the outliers, if any?