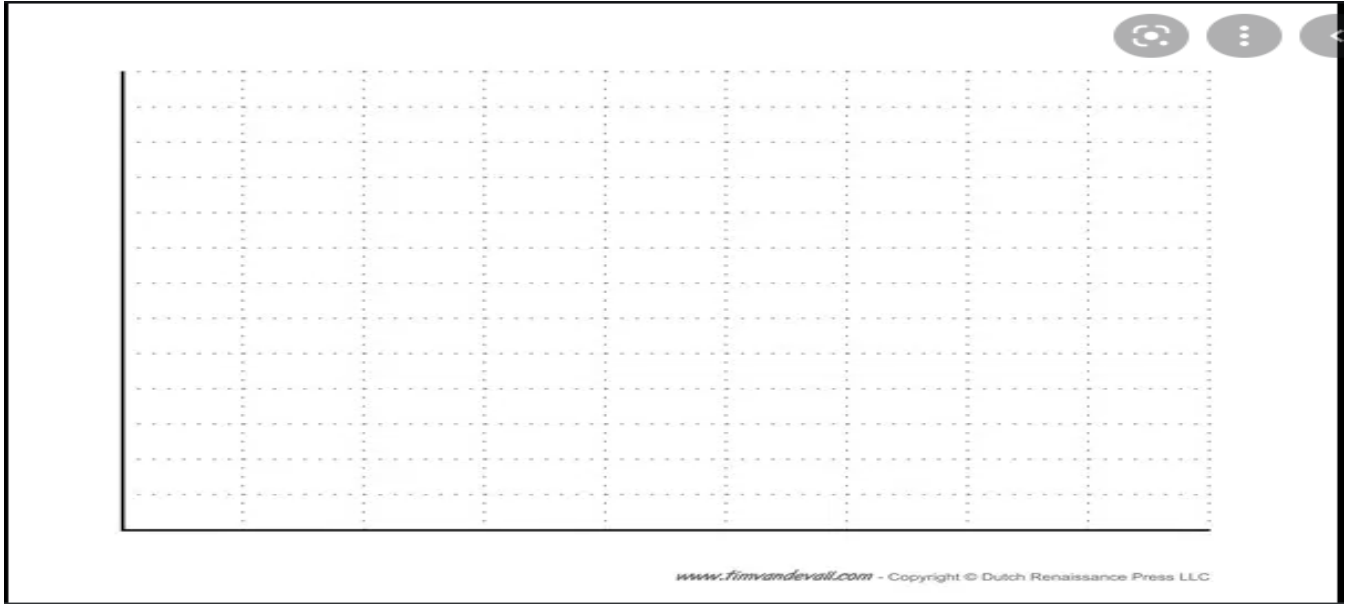


**L1-2a Spontaneous Statistics S.ID.1, 2, 3, 5**

Data Analyzer Name: \_\_\_\_\_

1) For your assigned activity **create a histogram** that represents the combined data for both male and female students. Label your graph accordingly.

Assigned Activity: \_\_\_\_\_



**Hut Hut**

**2. Calculate the measures of central tendency**

Mean:

Median:

Mode:

**3. Calculate the measures of variation for this activity and create a Box and Whisker Plot**

Maximum:

Minimum:

Range:

IQR:

Q1:

Q2:

Q3:

Q4:

Outliers:

**4. Standard Deviation:**

**5. What is your data value's z-score and what was the probability of scoring below your score?**

**Don't Flip Out**

**6. Calculate the measures of variation for this activity**

Maximum:

Minimum:

Range:

**7. Standard Deviation:**

**8. What is your data value's z-score and what was the probability of scoring below your score?**

**Stack the Dice:**

**9. Calculate the measures of central tendency**

Mean:

Median:

Mode:

**Standard Deviation:**

**10. What is your data value's z-score and what was the probability of scoring above your score?**

**Block Head:**

**11. Calculate the measures of central tendency**

Mean:

Median:

Mode:

**12. Standard Deviation:**

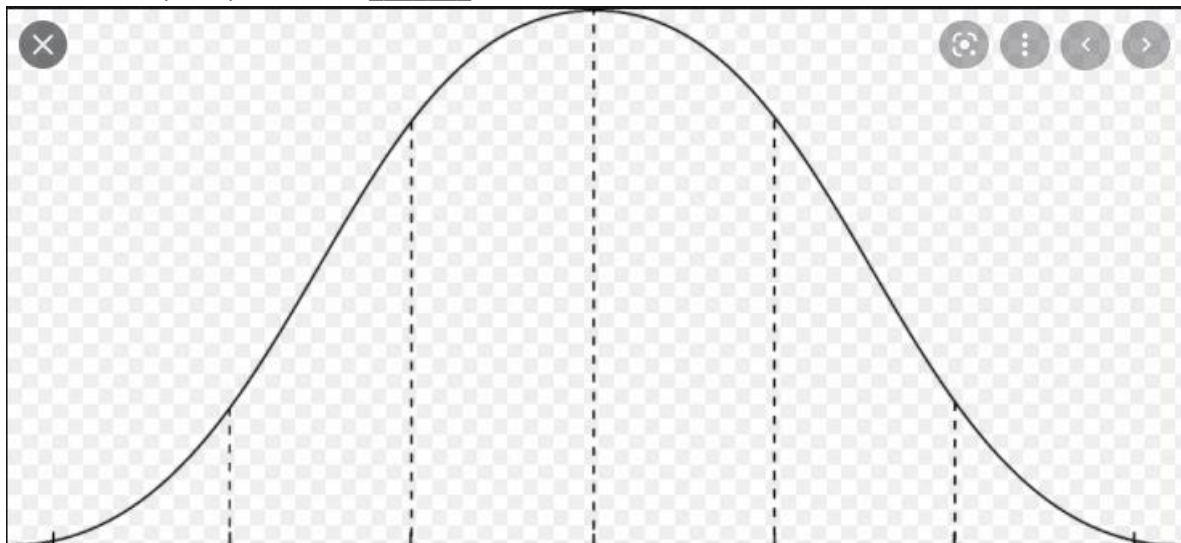
**13. What is your data value's z-score and what was the probability of scoring above your score?**

14. In your own words, describe shape of the data. What observations did you make?

(Hint: What ranges do most of the "scores"/data fall between?)

15. Create a **Bell Curve** for one of the Activities of your choice:

Which activity did you choose: \_\_\_\_\_



16. For the activity you chose, what would be the **scores within one standard deviation** above or below the mean?

1 Standard Deviation below \_\_\_\_\_ 1 Standard Deviation above \_\_\_\_\_

17. What **percent** of students fell **within one standard deviation** above or below the **mean**?

18. In your own words, describe the **shape of the data**. (Hint: Did the **percent of students** in the class match the **empirical rule** of percent of the population above or below the mean?)

19. Do you feel the data was skewed in any way? Explain your reasoning.

20. What changes can you make in this experiment to get more accurate data?