| | Name: |
|---|--|
| | Partner(s): |
| Trimester 3 Projection | ct |
| Your topic: | |
| | |
| We are going to use a topic of your choice to practice the | following material covered in Unit 6: |
| Mean Median MAD Distribution | Variability Box Plots |
| Choosing a topic: | |
| You will need to choose a topic that allows you to collect data in You and your partner will need to each perform two of the same different data sets You will collect II sets of data in each data set | |
| You can work in groups of 2 or 3: | |
| Once you choose your partner(s), report your group to your tea If you don't choose a partner, that's ok! You will be randomly assistant. | |
| ***We will assign parts of the project to be completed at differe Homework and what's labeled as C | |
| Rough Project Timeline (May change by a day or two): | |
| Wednesday/Thursday (5/17 or 5/18) — Report partner and | project topic to teacher |
| Thursday (5/18) — If you did not choose your own partner, Thursday night | ; you will randomly be assigned one by |
| Friday (5/19) — Check teacher comments and finalize your | project idea |
| Friday (5/19) — If your project topic has not been chosen be assigned a topic | by the end of this day, you will be randomly |
| Friday (5/26) — Data due! Show your teacher your data in Remember to collect data early in case you need to change | |
| Monday - Friday (5/29 - 6/2) — In class project work-time | |
| Monday - Block Day (Weds. or Thurs.) (6/5 - 6/8) — In-class | s presentations |

Presentation options:

- Poster
- keynote
- Video
- PowerPoint
- Presentation method of your choice (if you get it approved by teacher)

Remember that your student laptops are returned 6/2:

- So, you can only do a digital media presentation if you definitely finish by the end of class on 6/1
- If you choose to do a digital media presentation, you will need to share your final presentation with your teacher over Google Drive before you turn in your laptops by 6/I

Rubric (Graded by teacher):

| | Possible Points | Your Points |
|--|-----------------|-------------|
| 2 sets of data for each partner | 6 | |
| Calculations of: Mean, Median, Lower Quartile, Upper Quartile, Lowest Value, Highest Value, and MAD | 10 | |
| 2 Box Plots for Data set 1 (or 3 Box Plots if you're a group of 3) | 6 | |
| 2 Box Plots for Data set 1 (or 3 Box Plots if you're a group of 3) | 6 | |
| Answers to the 3 questions (on P. 6) for Data set 1 | 3 | |
| Answers to the 3 questions (on P. 6) for Data set 2 | 3 | |
| Definitions for MAD, distribution, and variability | 3 | |
| Presentation | 5 | |
| Photo/Video evidence | 3 | |
| TOTAL POINTS | 45 | |



| Trial | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
|---|---------------|-----------|------------|-------------|----------------|-------|-------|-------|-------|---------|-----|
| Results of that trial | | | | | | | | | | | |
| | | | | | | | | | | | |
| nnnnnnn | | unnnnn. | ~~~~~ | ınnnnnı | ~~~~~ | ~~~~~ | ~~~~~ | ~~~~~ | ~~~~~ | <i></i> | ~~~ |
| 2nd Data Se | t_ — What | you are c | doing to c | ollect this | ~~~~~ data: | ~~~~ | ~~~~ | ~~~~ | ~~~~ | unnnnn | |
| | t — What | you are o | doing to c | ollect this | data: | 6 | 7 | 8 | 9 | 10 | |
| 2nd Data Se Trial Results of that trial | | | | | | | | | | 10 | |

| Your Data Set | #1 — Top | oic: | | | | | | | | | |
|-----------------------|-----------|-------------|--------|---|---|---|---|-----|---|----|----|
| Trial | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Results of that trial | | | | | | | | | | | |
| Order your dat | a from lo | west to hiç | ghest: | | | , | | _,, | | | |
| Median: | Wo | ork: | | | | | | | | | |
| Lowest Value: | | | | | | | | | | | |
| Highest Value: | | | | | | | | | | | |
| Lower quartile: | | Work: | | | | | | | | | |
| | | | | | | | | | | | |
| Upper quartile: | | Work: | | | | | | | | | |
| Maani | | | | | | | | | | | |
| Mean: | Wo | ork: | | | | | | | | | |
| MAD: | | | | | | | | | | | |
| | Wo | ork: | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

^{***}After each page of classwork, show teacher your work before moving on!***

| rour Buta oot | #Z — 10p | DIC: | | | | | | | | | |
|-------------------------|------------|-------------|--------|-------|---|-----|---|----|---|----|----|
| Trial | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| Results of that trial | | | | | | | | | | | |
| Order your dat | a from lov | west to hiç | ghest: | _,, _ | , | _,, | , | ,, | , | | |
| Median: | Wo | rk: | | | | | | | | | |
| Lowest Value: | | | | | | | | | | | |
| <u>Highest Value</u> : | | | | | | | | | | | |
| Lower quartile: | | Work: | | | | | | | | | |
| <u>Upper quartile</u> : | | Work: | | | | | | | | | |
| Mean: | Wo | rk: | | | | | | | | | |
| MAD. | | | | | | | | | | | |
| MAD: | Wo | rk: | | | | | | | | | |

^{***}After each page of classwork, show teacher your work before moving on!***

| ta Set | #1 — To | opic: | | | | | | | | | | |
|--------|----------|----------|-----------------|---------|-------------|------------|------------|----------|-----------|-----------|---------|---|
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| | I | ı | l | ı | l | | I | l | l | l | l | I |
| Which | n partne | r's data | set has | a highe | er distribu | ution of v | alues? | | | | | |
| Which | n partne | r's data | set has | a highe | er variabi | ility? | | | | | | |
| What | do you | think co | uld be th | ne reas | on for the | e differen | ices in yo | u and yo | ur partne | er's data | sets? _ | |
| | - | | | | | | | _ | - | | | |
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| a Set | | | | | | | | | | | | |
| | #2 — To | opic: | | | | | | | | | | |
| Which | #2 — To | opic: | set has | a highe | er distribu | ution of v | alues? | | | | | |
| Which | #2 — To | opic: | set has | a highe | er distribu | ution of v | | | | | | |
| Which | #2 — To | r's data | set has set has | a highe | er distribu | ution of v | alues? | | | | | |

Your presentation needs to include:

- 1) 4 data sets total (Partner 1: data for 1st data set and 2nd data set, Partner 2: data for 1st data set and 2nd data set). **Groups of 3** will need 6 data sets total!
- 2) 4 box-plots total (2 for 1st data set, 2 for 2nd data set). **Groups of 3** will need 6 box-plots total!
- 3) For each data set (2 for each partner/ 4 total) (Groups of 3 will need 6 total):
 - Median
 - · Lower Quartile
 - Upper Quartile
 - · Lowest Value
 - · Highest Value
 - Mean
 - MAD
- 4) 2 sets of answers to the 3 questions on P. 6 (1 for comparing your partner and your data for 1st data set and 1 for comparing your partner and your data for your 2nd data set) (Groups of 3 will also have 2 sets of answers
 - Which partner's data set has a higher distribution of values?
 - · Which partner's data set has a higher variability?
 - What do you think could be the reason for the differences in you and your partner's data sets?
- 5) Definitions for MAD, distribution, and variability

Final information:

Remember that you will need to take video or photo evidence while you gather your data. You will not need to include every photo or video in your final project, since that would take too much time/space.

So, pick the best ones for your presentation.

However, all photo/video evidence will need to be shown to your teacher DIGITALLY, so I recommend uploading it into a file on Google Drive

(do NOT print a bunch of photos! If you are doing a poster presentation, only print a few photos that will be included on your poster!)