# Math 7 Strategies 1

Q3 2024-2025
Week 1

# DATA SAMPLING objectives from Math PSSA 7th grade

**PA Grade 7, Math Anchor**

**M07.D-S.1.1.1**

Determine whether a sample is a random sample given a real-world situation.

**M07.D-S.1.1.2**

Use data from a random sample to draw inferences about a population with an unknown characteristic of interest.

*Example 1: Estimate the mean word length in a book by randomly sampling words from the book.*

*Example 2: Predict the winner of a school election based on randomly sampled survey data.*

**M07.D-S.2.1.1**

Compare two numerical data distributions using measures of center and variability.

*Example 1: The mean height of players on the basketball team is 10 cm greater than the mean height of players on the soccer team. This difference is equal to approximately twice the variability (mean absolute deviation) on either team. On a line plot, note the difference between the two distributions of heights.*

*Example 2: Decide whether the words in a chapter of a seventh-grade science book are generally longer than the words in a chapter of a fourth-grade science book.*

- Range, Interquartile Range, DEVIATION

- Various charts/plots
- Box plot create/interpret (min, Q1, median, Q3, max)

- Mean, Mode, Mean

| Week Jan 27-31 | Lesson Overview |
| --- | --- |

Monday -
-   Watch Growth Mindset video - complete the notecard about you
-   Complete the Diagnostic Pretest off studyisland.com

Tuesday-    Lumos Learning Book LLB Lesson 3: pg 118-123
==Notes guided through a handout to discuss MEAN, MODE, MEDIAN, RANGE as summary of the data==
-   LLB copy pg 122, 123 for notes
-   Studyisland.com Handout of sample problems
-   Have students turn in book to begin pg 119 for teacher led # 1-3,11,14-15
-   Students work through the lesson problems # 4-17

Wednesday  - Continue and complete studyisland.com handout and LLB pgs

Thursday - Bookbag lab - data collection (weight full, calculation lab sheet)

Friday - Lumos Learning Book LLB Lesson 4: pg 124-128
    Handout with pg 127-128 for notes and teacher led # 1-5 also.
==Notes guided through a handout to discuss QUARTILES, Interquartile RANGE as summary of the data==

# Growth Mindset NOTECARD of you. --- all needs to be school appropriate :)

**NAME** does in center

- First may be only needed - look around at classmates to insure it not a repeat in class.
- You may use an approved nickname.

Number of **class period** at the end of your name

Decorating it will be later so careful of space

- Top left hand corner: 1-2 word phrase you are/want to be **known** for.
  - On back lined side - first line explain why for me to read later.
- Top Right-hand corner - **FAVORITE number or number set -**
  - On back lined side - second line explain why for me to read later.
- Bottom Right-hand corner - **FAVORITE GEOMETRY/Algebra** Term/Concept/Property

You're Not Bad At Math:   https://www.youtube.com/watch?v=tg0Z--pmPog        3 mins.
Growth Mindset vs Fixed:  https://www.youtube.com/watch?v=JfdoJxPjp1k              2 mins.