Unit 1 Lesson 15: Comparing Data Sets

1 Bowling Partners (Warm up)

Student Task Statement

Each histogram shows the bowling scores for the last 25 games played by each person. Choose 2 of these people to join your bowling team. Explain your reasoning.

Person A

mean: 118.96median: 111

standard deviation: 32.96interquartile range: 44

Person B

mean: 131.08median: 129

standard deviation: 8.64interquartile range: 8

Person C

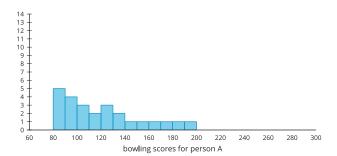
mean: 133.92median: 145

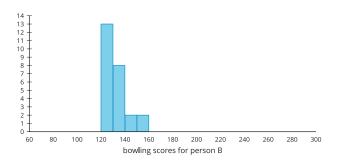
standard deviation: 45.04interquartile range: 74

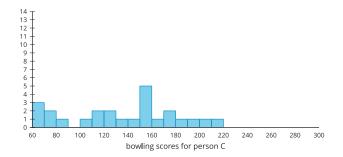
Person D

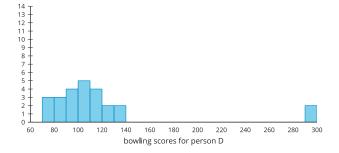
mean: 116.56median: 103

standard deviation: 56.22interquartile range: 31.5





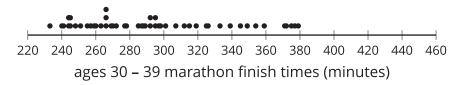


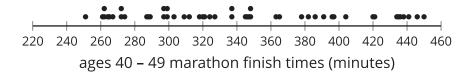


2 Comparing Marathon Times

Student Task Statement

All of the marathon runners from each of two different age groups have their finishing times represented in the dot plot.





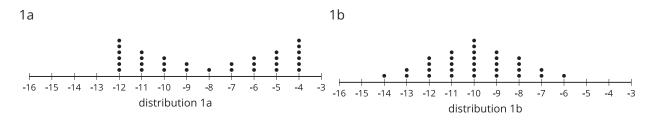
- 1. Which age group tends to take longer to run the marathon? Explain your reasoning.
- 2. Which age group has more variable finish times? Explain your reasoning.

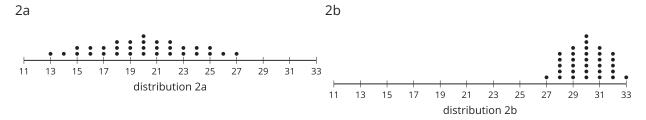
3 Comparing Measures

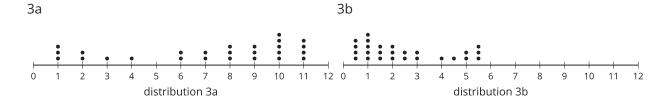
Student Task Statement

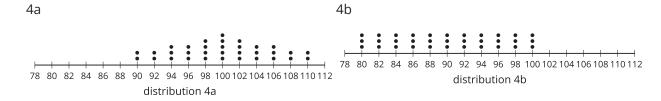
For each group of data sets,

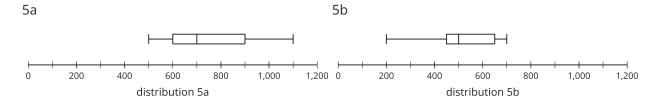
- Determine the best measure of center and measure of variability to use based on the shape of the distribution.
- Determine which set has the greatest measure of center.
- Determine which set has the greatest measure of variability.
- Be prepared to explain your reasoning.











6a 6b

A political podcast has mostly reviews that either A cooking podcast has reviews that neither hate love the podcast or hate it.

nor love the podcast.

7a 7b 7c

Stress testing concrete from site Stress testing concrete from site Stress testing concrete from site A has all 12 samples break at 450B has samples break every 10 psi C has 6 samples break at 430 psi pounds per square inch (psi). starting at 450 psi until the last and the other 6 break at 460 psi. core is broken at 560 psi.