

Math Strategies 1

Q2 - Pletcher
Nov 2- Nov. 18, 2023

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7th grade PSSA - Overview

These will be covered the first 3 weeks of term.

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.

Weeks Nov. 20 - Dec 1

B - Monday: Studyisland.com Partner work on “Comparing Data Sets” on individual accounts (switch back and forth)

A -Tuesday: Studyisland.com Partner work on “Comparing Data Sets” continue

B-Wednesday -Early dismissal - no class today then week off

A-Wednesday - Use last week group session handout to fill in a live session answers and review answers for notes on comparing data sets. Also discuss any problems from last weeks partner work.

B-Thursday - Work on Kahoot to practice calculating measures

https://kahoot.it/challenge/03387674?challenge-id=6a35df94-15d6-42bb-9a0b-07404aeef3ff_1701213159524

A-Friday - Work on a comparison sheet of missed problems --- main thing is slow down and show work on each data set OR state why an answer is the best.

Wednesday Nov. 29 Sample

The table below shows Janelle's and Braden's scores on nine different math quizzes.

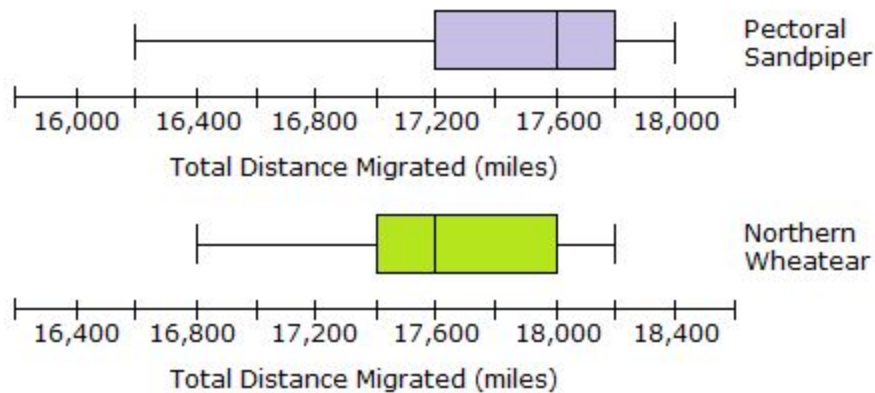
	Quiz 1	Quiz 2	Quiz 3	Quiz 4	Quiz 5	Quiz 6	Quiz 7	Quiz 8	Quiz 9
Janelle	86	100	98	83	88	96	100	82	95
Braden	92	88	100	78	89	79	86	82	82

What is the approximate difference between Janelle's and Braden's average quiz scores?

- A. 4
- B. 7
- C. 9
- D. 6

Wed Nov 29 Sample 2

A scientist studied the migration paths of two different species of birds, the Pectoral Sandpiper and the Northern Wheatear. He tagged 20 of each species with GPS trackers and monitored their total migration distances for the year. The results are represented by the box plots below.



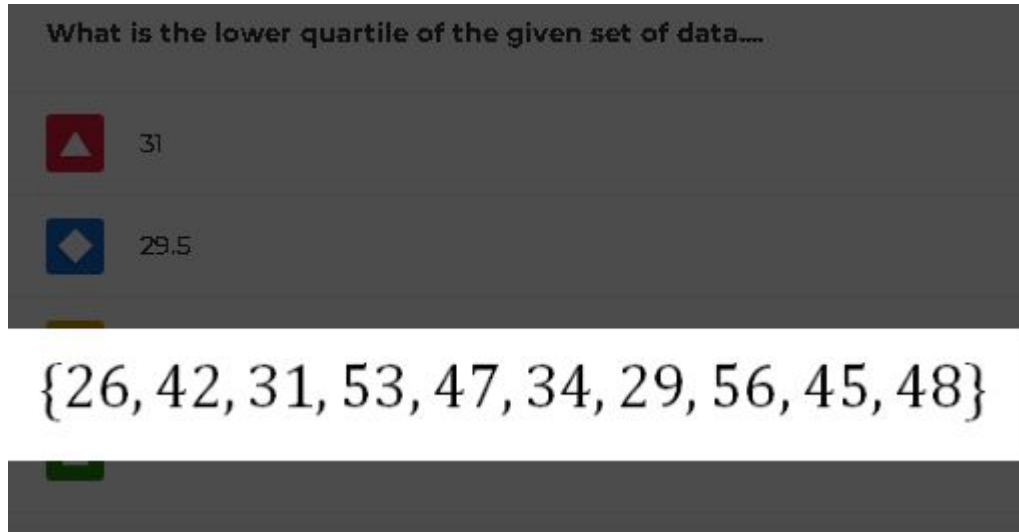
Use the provided box plots to evaluate each of the statements below.

The median migration distance for the Pectoral Sandpipers is the same as for the Northern Wheatears.	True	False
The interquartile range is greater for the Pectoral Sandpipers.	True	False
Both data sets have the same maximum value.	True	False

Kahoot Sample Nov 30

Lower Quartile of this data set -----

-----teach to put in order and breakup into 4ths (Quarters/Quartiles)



What is the lower quartile of the given set of data...

31

29.5

{26, 42, 31, 53, 47, 34, 29, 56, 45, 48}

The image shows a Kahoot! quiz interface. At the top, the question asks for the lower quartile of a data set. Two radio buttons are visible: one for '31' and one for '29.5'. Below the question, the data set is listed as {26, 42, 31, 53, 47, 34, 29, 56, 45, 48}. The interface is dark-themed with a white text box for the data set.

Friday Dec 1 Sample from worksheet

Is this a reading issue?

The table below shows the number of patients each dentist saw per day.

	Dentist A	Dentist B
Monday	7	12
Tuesday	13	9
Wednesday	9	13
Thursday	11	12
Friday	10	11

Which dentist has a higher median number of patients and what is the difference in the medians?

- A. Dentist B has a higher median by 4 patients.
- B. Dentist B has a higher median by 2 patients.
- C. Dentist A has a higher median by 4 patients.
- D. Dentist A has a higher median by 2 patients.