

Math Strategies 1

Q1 - Pletcher
2024

UPDATED September 9 - Week
GOOGLE Classroom

Display

Studyisland --- curriculum

SAMPLING & STATS

First initial of first name | Full last name

@rasd

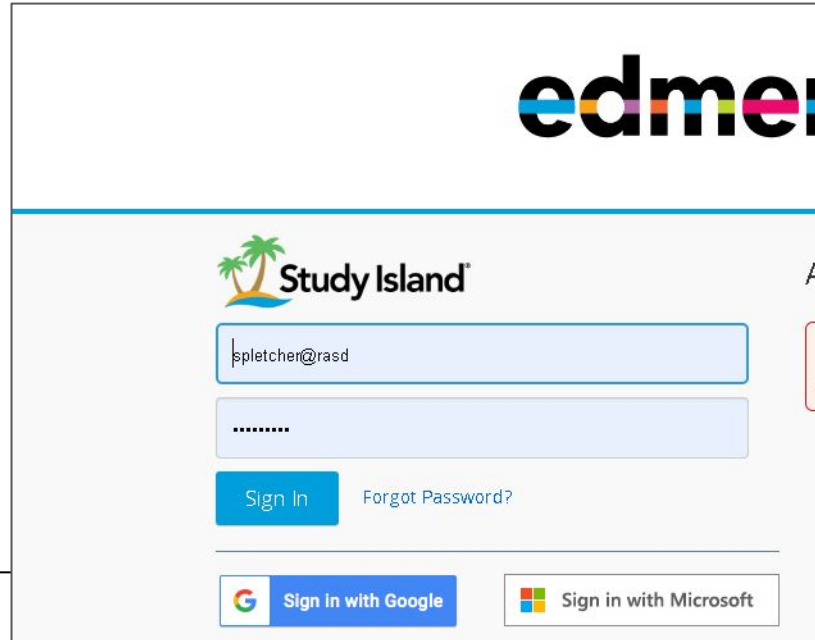
Password is student

Day 1:

Take the Diagnostic test

Use a piece of paper for work.

Title and name on it for folder



The screenshot shows the Study Island login interface. At the top right is the 'edmentum' logo. Below it is the 'Study Island' logo featuring two palm trees. There are two input fields: the first contains the email 'jspletcher@rasd' and the second contains a masked password '.....'. Below the password field are two links: 'Sign In' and 'Forgot Password?'. At the bottom, there are two buttons for social login: 'Sign In with Google' and 'Sign in with Microsoft'.

7th grade PSSA - Overview

These will be covered the first 4.5 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.

Week September 9-13

A-Monday: Studyisland group session on Sampling for notes and examples

B-Tuesday: Continue with studyisland group session. Discuss

A-Wednesday - Students complete individual studyisland session online

B-Thursday - Review the class missed questions from studyisland online session

A-Friday - Complete Quiz from studyisland group session in RACE setup for a grade - not based on speed though. Bonus point for fastest with most correct.

Monday Example -- Watch your directions --Sample

Start Poll

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

Subtract
Step 3

Step 1
Step 2
 $\frac{\text{Sum}}{n}$

for each

$$\frac{828}{9} = 92$$

$$\frac{776}{9} = 86$$

$$92 - 86 = 6$$

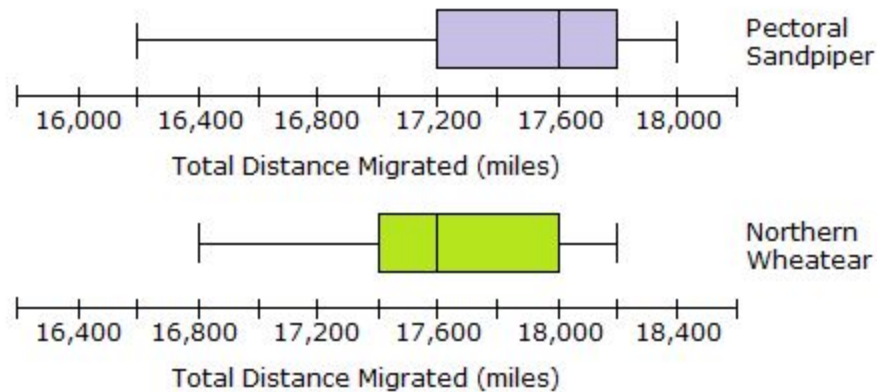
Explanation

Reset

Next Question

Monday 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 |

Monday Sample 3 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.

