



Evaluate statistical claims and conclusions

1

Which class has a higher standard deviation?

Class A : 54, 58, 56, 52, 55

Class B : 45, 48, 54, 42, 36

A

Class A

B

Class B

2

Which player has less consistent scoring?

Player A : 24, 21, 27, 25, 23

Player B : 25, 43, 31, 37, 34

A

Player B

B

Player A

3Population: All trees in a provincial park
Sample: 300 trees randomly selected throughout the park

A

Yes, it is representative of the population

B

No, it is not representative of the population

4Goal: Average number of books read by adults in a year
Sampling approach: Survey members of a local book club

A

Book club members may remember book titles more accurately than other adults.

B

Book club members may read more books than the average adult.

5

Goal: Which social media platform students use most often

A

Survey only students in a media studies class.

B

Post the survey on a single social media platform and compare the responses received throughout the week.

C

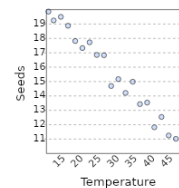
Count the school's social media posts.

D

Survey a representative sample of students about their usage.

6

If temperature is 30, would 15 be a reasonable value of seeds?



A Yes

B No

7Population: All books in a public library system
Sample: 800 books randomly selected from all library branches

A

No, it is not representative of the population

B

Yes, it is representative of the population

8Goal: Support for a political candidate
Sampling approach: Survey people attending that candidate's campaign rally

A

Campaign attendees may support the candidate more strongly than the average voter.

B

Campaign attendees may be more willing to complete surveys than other voters.



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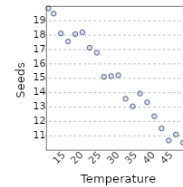
9

Goal: Average grocery spending per household

- A Ask shoppers to estimate their grocery spending for the past year and explain how it changes from month to month.
- B Survey shoppers at a discount grocery store.
- C Collect grocery spending records from a representative sample of households.
- D Estimate spending from the number of grocery bags.

10

If temperature is 24, would 13 be a reasonable value of seeds?



A No

B Yes

11

Population: All elementary school teachers in Ontario
Sample: 700 teachers enrolled in graduate education courses

- A No, it is not representative of the population
- B Yes, it is representative of the population

12

Goal: Student satisfaction with cafeteria food
Sampling approach: Ask students, "How bad is the cafeteria food this year?"

- A The wording of the question may encourage students to report lower satisfaction.
- B Students may remember cafeteria meals from earlier in the year more clearly than recent meals.