LESSON MAKER PRO

Count Every Entry

Find and report the number of observations, n.

GRADE 6 · 6.SP.B.5a

CCSS.Math.Content.6.SP.B.5a "Reporting the number of observations."

NAME _____ DATE _____

WHAT COUNTS AS AN OBSERVATION?

An observation is one recorded value from one person, object, or trial. To report the number of observations, count every entry, including repeated values. The number of observations is often written as n.

WORKED EXAMPLE

The recorded lap times, in minutes, are 31, 33, 32, 31, 34. Report the number of observations, n.

1. Count the recorded entries: 1, 2, 3, 4, 5.
2. The repeated value 31 still counts as a separate observation.
3. Write n = 5.

Answer: n = 5 observations

PRACTICE 6 problems

1 A data set is 2, 7, 2, 9. What is n?

ANSWER _____

2 A weather log has these daily temperatures: 18, 20, 19, 18, 21, 20, 22. What is n?

ANSWER _____

3 A coach records these numbers of push-ups: 8, 11, 10, 8, 7, 9, 11. Report n.

ANSWER _____

4 A science group made 3 trials on Monday, 2 trials on Tuesday, and 3 trials on Wednesday. Each trial gave one observation. What is n?

ANSWER _____

5 A data list has 10 entries, but only 4 different values. What is n?

ANSWER _____

6 A data set is 4, 1, 4, 6, 3, 2, 6, 1, 4. What is n?

ANSWER _____

APPLY IT Show your work

1 The table shows pages read by members of a book club. Each row is one student's report. What number of observations should the club report?

PAGES READ

Student	Pages
Ava	11
Ben	8
Cora	10
Deon	9
Elle	7
Finn	6

ANSWER _____

2 A game club planned to collect one survey response from each of 24 members. Seven members were absent and did not complete the survey. How many observations are in the survey data?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A student says that n = 4 for the data set 6, 6, 7, 8, 8, 8, 9 because there are 4 different values. Is the student correct? State n and explain your reasoning.

WORK SPACE AND ANSWER

ANSWER KEY

Count Every Entry

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PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A data set is 2, 7, 2, 9. What is n?	**n = 4**
2	A weather log has these daily temperatures: 18, 20, 19, 18, 21, 20, 22. What is n?	**n = 7**
3	A coach records these numbers of push-ups: 8, 11, 10, 8, 7, 9, 11. Report n.	**n = 7**
4	A science group made 3 trials on Monday, 2 trials on Tuesday, and 3 trials on Wednesday. Each trial gave one observation. What is n?	**n = 8**
5	A data list has 10 entries, but only 4 different values. What is n?	**n = 10**
6	A data set is 4, 1, 4, 6, 3, 2, 6, 1, 4. What is n?	**n = 9**

PART 2 · APPLY IT

1. **n = 6 observations** Count the data rows, not the header row. There are 6 student reports.
2. **n = 17 observations** Subtract the members who were absent from the total members: 24 - 7 = 17.

CHALLENGE

No. n = 7 because every recorded value is an observation, including repeated values.

Accept answers written as a number of observations or as n = the number. Students must count repeated values as separate observations.