

Question ID dbf83de2

Assessment	Test	Domain	Skill	Difficulty
PSAT 8/9	Math	Problem-Solving and Data Analysis	One-variable data: Distributions and measures of center and spread	

ID: dbf83de2

Five *Eretmochelys imbricata*, a type of sea turtle, each have a nest. The table shows an original data set of the number of eggs that each turtle laid in its nest.

Nest	Number of eggs
A	149
B	144
C	148
D	136
E	139

A sixth nest with **121** eggs is added to create a new data set. Which of the following correctly compares the means of the two data sets?

- A. The mean of the original data set is greater than the mean of the new data set.
- B. The mean of the original data set is less than the mean of the new data set.
- C. The means of both data sets are equal.
- D. There is not enough information to compare the means.

Question ID 3cb6e331

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ID: 3cb6e331

Data set X: 5, 9, 9, 13
Data set Y: 5, 9, 9, 13, 27

The lists give the values in data sets X and Y. Which statement correctly compares the mean of data set X and the mean of data set Y?

- A. The mean of data set X is greater than the mean of data set Y.
- B. The mean of data set X is less than the mean of data set Y.
- C. The means of data set X and data set Y are equal.
- D. There is not enough information to compare the means.

Question ID bc58a5a3

Assessment	Test	Domain	Skill	Difficulty
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ID: bc58a5a3

4, 4, 4, 4, 8, 8, 8, 13, 13

Which frequency table correctly represents the data listed?

- A.

Number	Frequency
4	4
8	3
13	2
- B.

Number	Frequency
4	4
3	8
2	13
- C.

Number	Frequency
4	16
8	24
13	26
- D.

Number	Frequency
16	4
24	8
26	13

Question ID 618b5887

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ID: 618b5887

Each value in the data set shown represents the height, in centimeters, of a plant.

6, 10, 13, 2, 15, 22, 10, 4, 4, 4

What is the mean height, in centimeters, of these plants?

Question ID 5b7e585b

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ID: 5b7e585b

2, 9, 14, 23, 32

What is the mean of the data shown?

- A. 14
- B. 16
- C. 17
- D. 32

Question ID 9c4d9f67

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ID: 9c4d9f67

6, 6, 8, 8, 8, 10, 21

Which of the following lists represents a data set that has the same median as the data set shown?

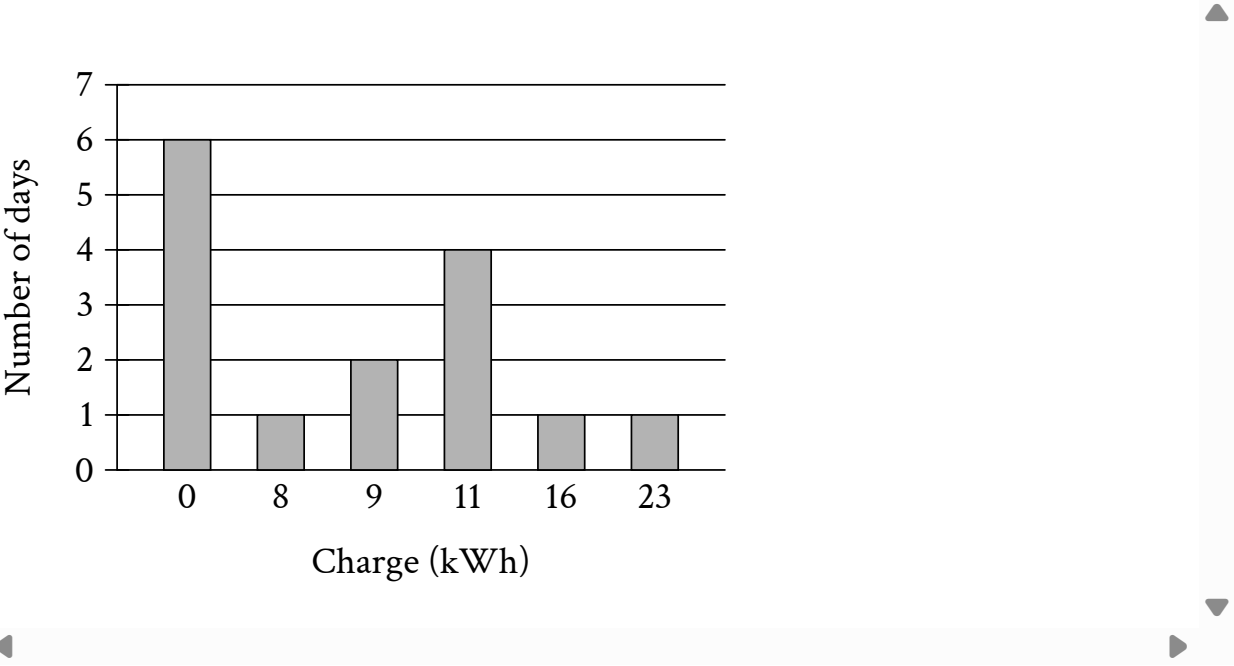
- A. 4, 6, 6, 6, 8, 8
- B. 6, 6, 8, 8, 10, 10
- C. 6, 8, 10, 10, 10, 12
- D. 8, 8, 10, 10, 21, 21

Question ID 9e7647d7

Assessment	Test	Domain	Skill	Difficulty
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ID: 9e7647d7

The bar graph summarizes the charge, in kilowatt-hours (**kWh**), a battery received each day for **15** days.



For how many of these **15** days did the battery receive a charge of **0 kWh**?

- A. **0**
- B. **1**
- C. **4**
- D. **6**

Question ID 544f18c9

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ID: 544f18c9

A list of **10** data values is shown.

6, 8, 16, 4, 17, 26, 8, 5, 5, 5

What is the mean of these data?