

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	One-variable data: Distributions and measures of center and spread	Medium

ID: 624c15c1

Data value	Frequency
6	3
7	3
8	8
9	8
10	9
11	11
12	9
13	0
14	6



The frequency table summarizes the 57 data values in a data set. What is the maximum data value in the data set?

14 //

Question ID a188f764

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ID: a188f764

The list gives the mass, in grams, of 5 alpine marmots.

4,010; 4,010; 3,030; 4,050; 3,050

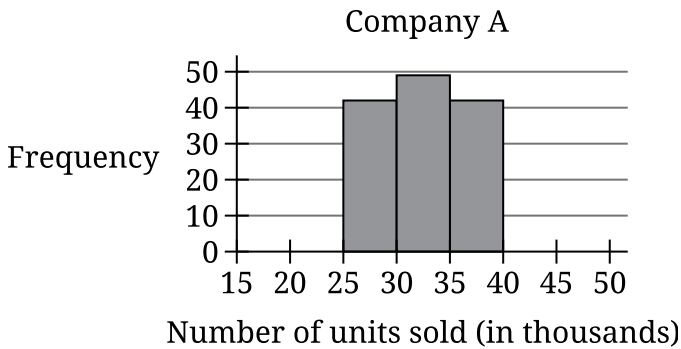
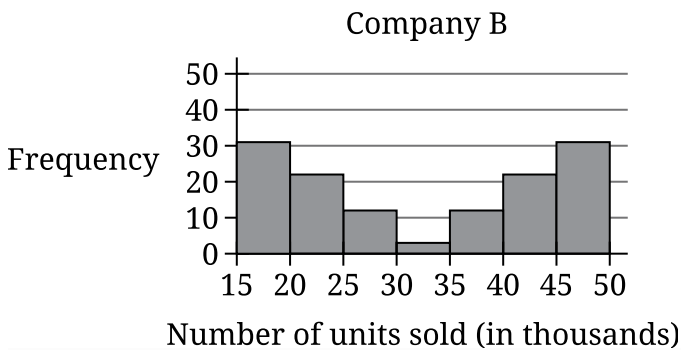
What is the mean mass, in grams, of these 5 alpine marmots?

$\bar{x} = 3,630 //$

Question ID 005878b3

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ID: 005878b3



เครื่องคิดเลข
ใช้ Midpoint
แต่ข้อนี้กะด้วยสายตา
เอาข้อได้
 $S_B > S_A$

- The histograms summarize the distributions of number of units sold, in thousands, for company A and company B. Which statement best compares the standard deviations of number of units sold for these companies?
- ☒ The standard deviation of number of units sold for company A is less than the standard deviation of number of units sold for company B.
 - ☒ The standard deviation of number of units sold for company A is greater than the standard deviation of number of units sold for company B.
 - ☒ The standard deviation of number of units sold for company A is equal to the standard deviation of number of units sold for company B.
 - ☐ There is not enough information to compare the standard deviations.

Question ID 22458cc3

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ID: 22458cc3

23, 27, 27, 32, 35, 36, 52
What is the range of the 7 scores shown?

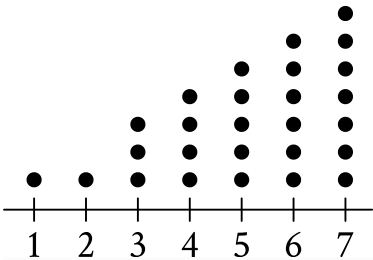
$52 - 23 = 29 //$

Question ID a9c6d7a3

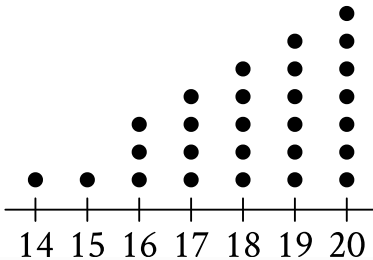
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ID: a9c6d7a3

Class A



Class B



Same graph
 $S_A = S_B$

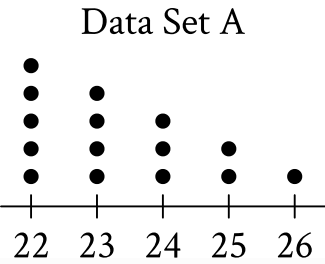
Each of the dot plots shown represents the number of glue sticks brought in by each student for two classes, class A and class B. Which statement best compares the standard deviations of the numbers of glue sticks brought in by each student for these two classes?

- A. The standard deviation of the number of glue sticks brought in by each student for class A is less than the standard deviation of the number of glue sticks brought in by each student for class B.
- ☒ B. The standard deviation of the number of glue sticks brought in by each student for class A is equal to the standard deviation of the number of glue sticks brought in by each student for class B.
- C. The standard deviation of the number of glue sticks brought in by each student for class A is greater than the standard deviation of the number of glue sticks brought in by each student for class B.
- D. There is not enough information to compare these standard deviations.

Question ID cd9fa443

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ID: cd9fa443



$$\text{Med}_A = n_8 = 23$$
$$\text{Med}_B = n_8 + 46 = 69$$
$$R_B = R_A$$

Data set A has 15 values and is represented by the dot plot shown. Data set B is created by adding 46 to each of the values in data set A. Which of the following correctly compares the medians and the ranges of data sets A and B?

- ☒ A. The median of data set B is greater than the median of data set A, and the range of data set B is equal to the range of data set A.
- ☐ B. The median of data set B is greater than the median of data set A, and the range of data set B is ~~greater~~ than the range of data set A.
- ☒ C. The median of data set B is ~~equal~~ to the median of data set A, and the range of data set B is ~~greater~~ than the range of data set A.
- ☐ D. The median of data set B is equal to the median of data set A, and the range of data set B is equal to the range of data set A.

Question ID e8971daa

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ID: e8971daa



4, 10, 18, 4, 4, 5, 6, 5

What is the median of the data set shown?

- A. 4
- B. 5
- C. 7
- D. 14

Question ID 78cc3297

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ID: 78cc3297

The table shows the frequency of values in a data set.

Value	Frequency
19	7
21	1
23	7
25	4

What is the minimum value of the data set?

19 //