



Ottocento Lesson #9 Basic Statistics Worksheet

Video Solutions at: <https://youtu.be/PELFPhQrgy8>

9, 26, 11, 3, 4, 7

Question 1

What is the mean of the data shown?

Question 2

What is the median of the data shown?



Value	Frequency
3	2
7	5
12	7
14	3
17	8
24	4
51	1

Question 3

What is the mean of the data set summarized in the frequency table?

Question 4

What is the median of the data set summarized in the frequency table?

Question 5

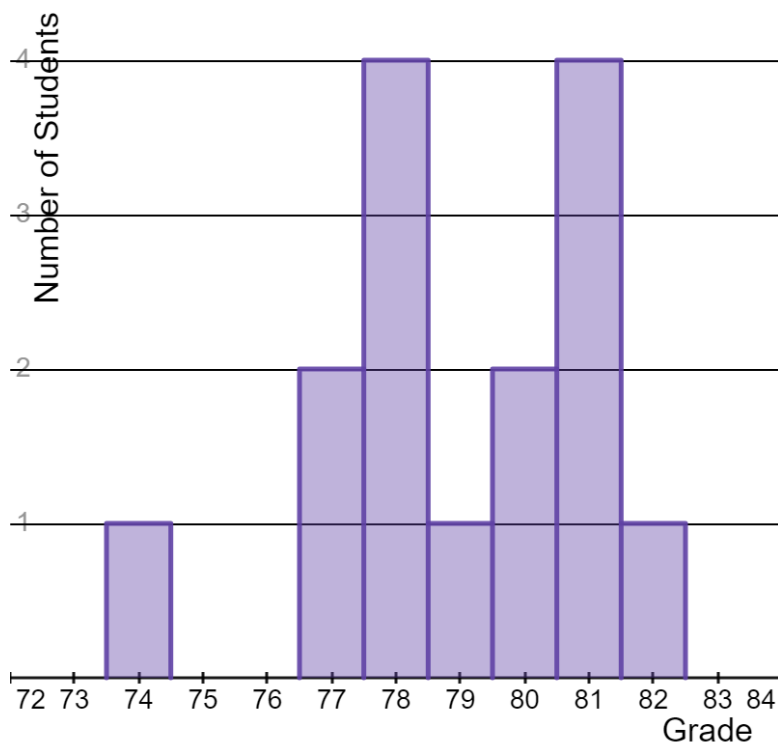
What is the minimum of the data set summarized in the frequency table?

Question 6

What is the maximum of the data set summarized in the frequency table?

Question 7

What is the range of the data set summarized in the frequency table?



Question 8

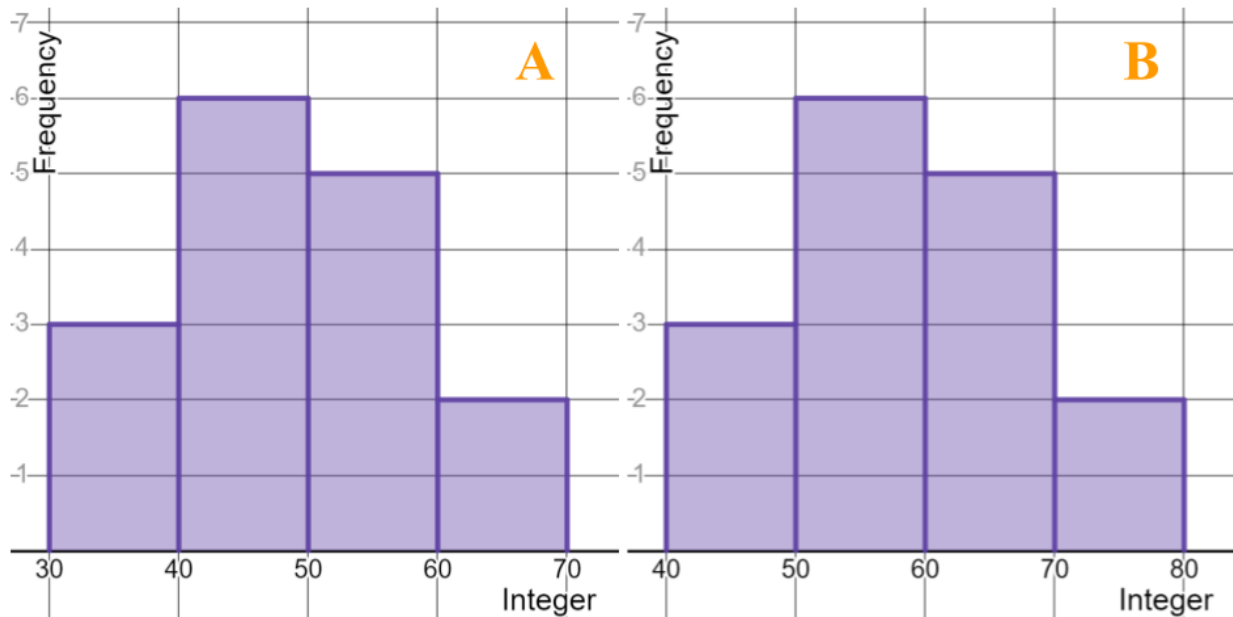
What is the mean grade of the 15 students in the class?

Question 9

What is the median grade of the 15 students in the class?

Question 10

What is the range of the data summarized in the histogram?

**Question 11**

Two data sets each containing 16 integers are summarized in the histograms shown. For the histogram, the first interval represents the frequency of integers greater than or equal to 30, but less than 40. The second interval represents the frequency of integers greater than or equal to 40, but less than 50, and so on. The mean of data set A is equal to a . The mean of data set B is equal to b . What is the

smallest possible value of $\frac{b}{a}$? Round your answer to the nearest hundredth.

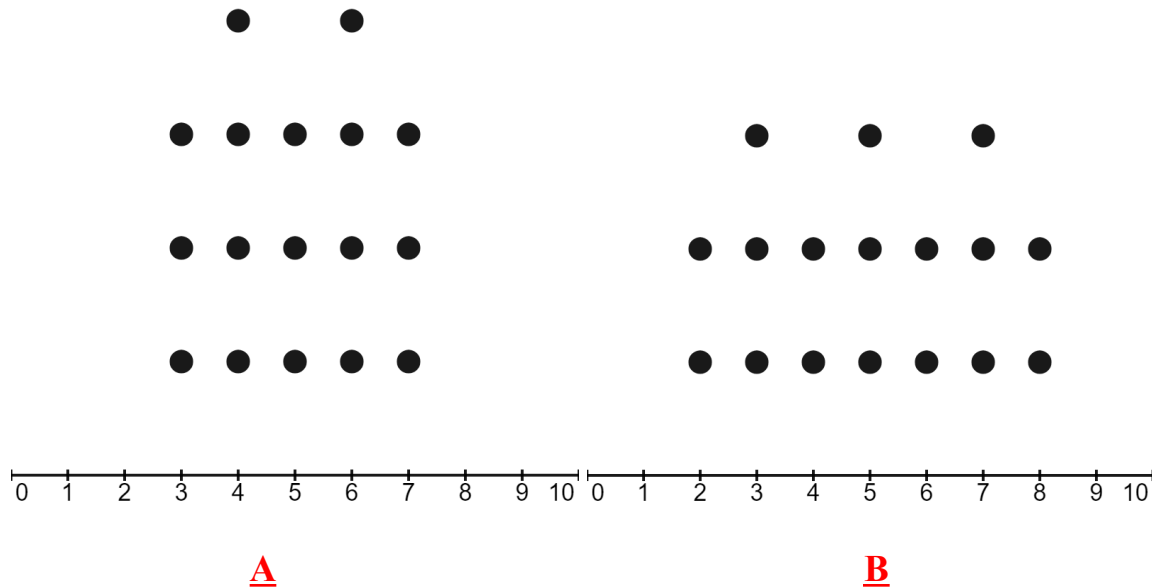


Question 12

Data set A consists of the prices of 42 video games and has a mean of 25 dollars.

Data set B consists of the prices of 38 video games and has a mean of 45 dollars.

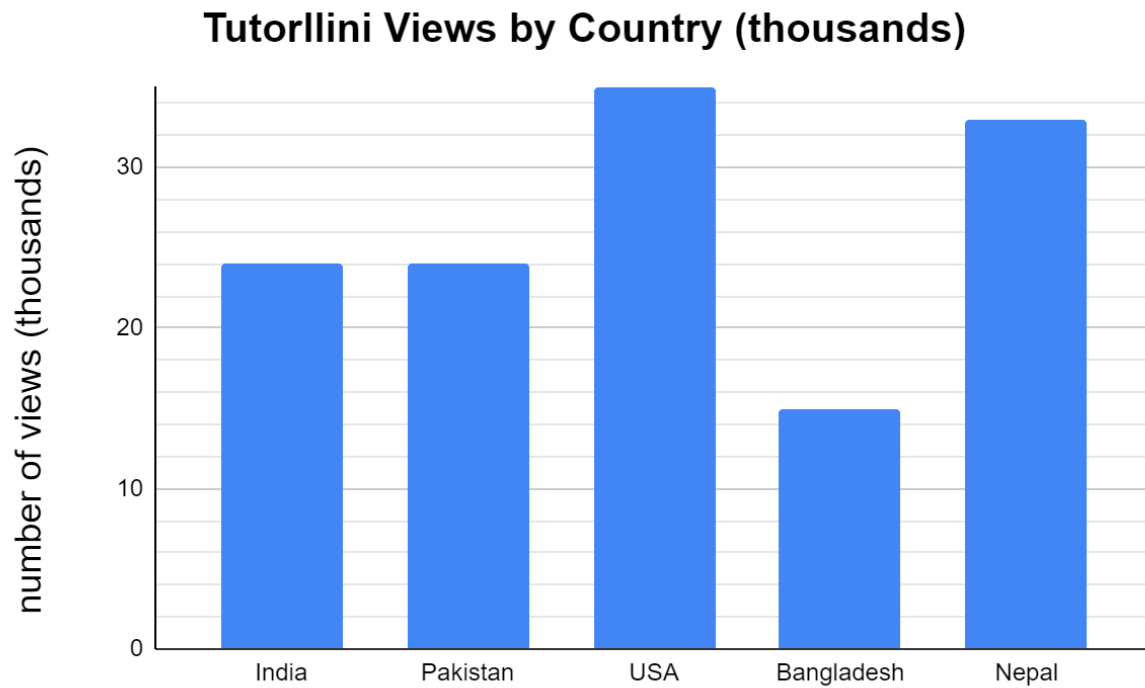
Data set C consists of the prices of all video games from data sets A and B. What is the mean price, in dollars, of data set C?



Question 13

Which of the following is true about the standard deviations of the two data sets in the dotplots above?

- A) The standard deviation of data set B is larger than the standard deviation of data set A.
- B) The standard deviation of data set A is larger than the standard deviation of data set B.
- C) The standard deviation of data set A is equal to the standard deviation of data set B.
- D) There is not enough information available to compare the standard deviations of the two data sets.

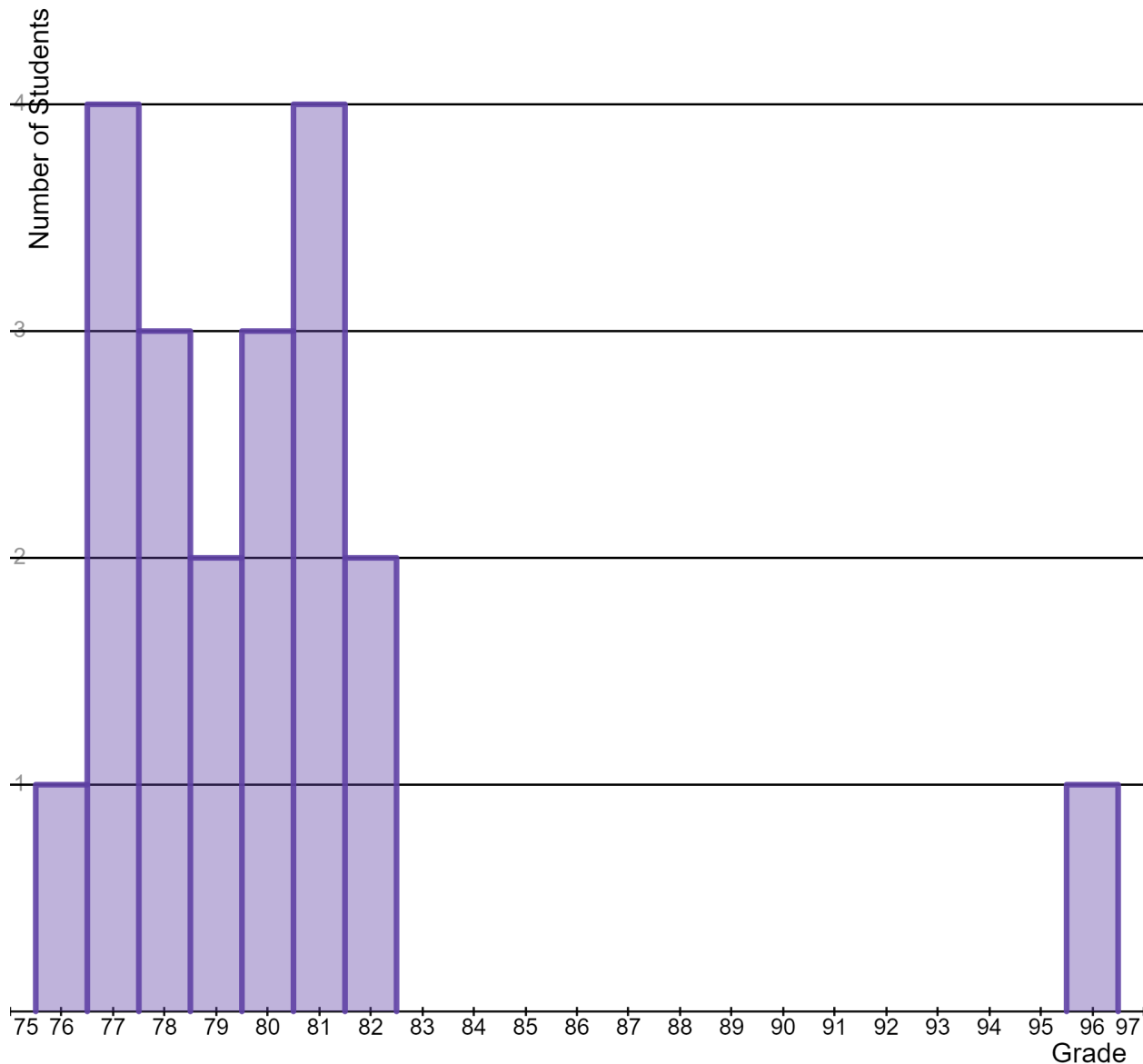


Question 14

What is the mean number of views for the countries summarized in the chart, in thousands?

Question 15

What is the median number of views for the countries summarized in the chart, in thousands?



Question 16

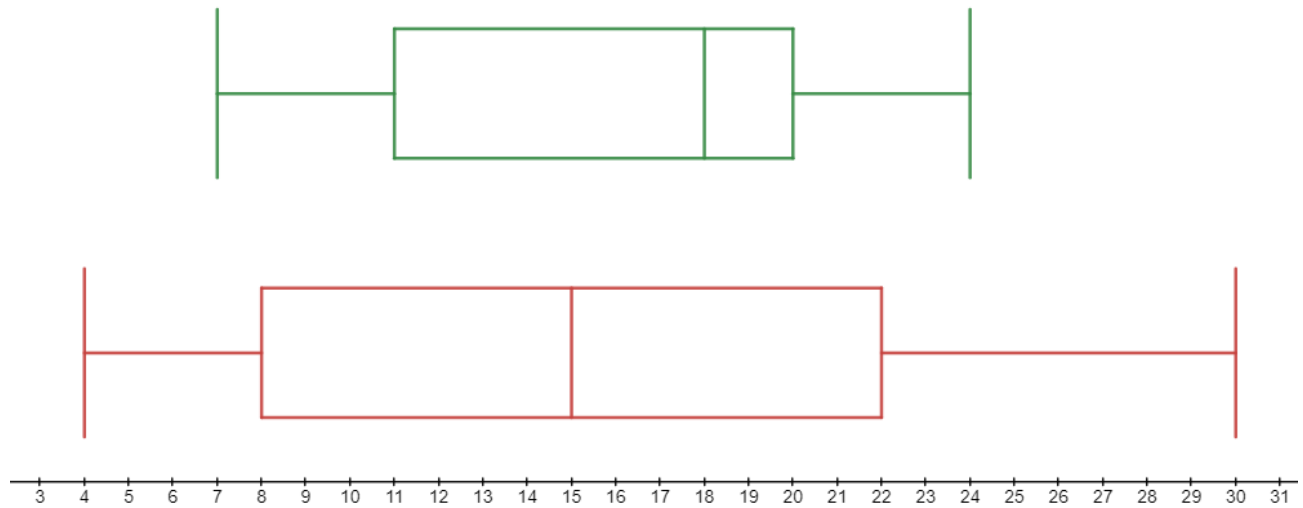
The grades of 20 students in a class are shown in the histogram above. The student with a grade of 96 will be removed from the data set since they are being transferred to an honors section. How will this change impact the mean and median grade of the class?

- A) The mean and the median will increase.
- B) The mean and the median will decrease.
- C) The mean will increase, and the median will remain the same.
- D) The mean will decrease, and the median will remain the same.

Question 17

Data set A consists of 17 values. Data set B is created by subtracting 6 from each of the values in data set A. Which of the following correctly compares the medians and ranges?

- A) 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.
- B) The median of data set B is equal to the median of data set A, and the range of data set B is less than the range of data set A.
- C) The median of data set B is less than the median of data set A, and the range of data set B is equal to the range of data set A.
- D) The median of data set B is less than the median of data set A, and the range of data set B is less than the range of data set A.



Question 18

What is the positive difference between the medians of the two boxplots?

Question 19

What is the product of the ranges of the two boxplots?

Question 20

For the second (red) boxplot, approximately what percentage of the data lies between 4 and 15?