

2, 2, 2, 3, 4, 4, 11

What is the median of the seven data values shown?

- A. 2
- B. 3
- C. 4
- D. 9

**ID: 8736334b**

Data set A: 72,73,73,76,76

Data set B: 61,64,74,85, $x$

Data set A and data set B each contain 5 numbers. If the mean of data set A is equal to the mean of data set B, what is the value of  $x$  ?

- A. 77
- B. 85
- C. 86
- D. 95

For a school fund-raiser, 10 students sold a total of 90 boxes of cookies. Which of the following can be calculated from this information?

- A. The average number of boxes sold per student
- B. The median number of boxes sold per student
- C. The greatest number of boxes sold by one student
- D. The least number of boxes sold by one student

ID: 35bec412

**73, 74, 75, 77, 79, 82, 84, 85, 91**

What is the median of the data shown?

**2, 9, 14, 23, 32**

What is the mean of the data shown?

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

ID: 4b09f783

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?

**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**

The table below shows the high and low temperatures in Houston, Texas, during a five-day period.

Temperatures in Houston, Texas  
(degrees Fahrenheit)

|                  | Monday | Tuesday | Wednesday | Thursday | Friday |
|------------------|--------|---------|-----------|----------|--------|
| High temperature | 73     | 56      | 62        | 75       | 81     |
| Low temperature  | 49     | 37      | 41        | 54       | 63     |

What was the mean low temperature, in degrees Fahrenheit, during the five-day period?

- A. 48.8
- B. 49
- C. 59
- D. 59.1

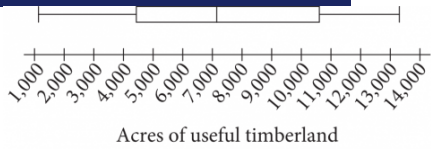


Data set A: 1, 2, 3, 4, 5, 6, 7

Data set B: 1, 1, 2, 2, 3, 3, 4

Which of the following statements correctly compares the means of data set A and data set B?

- A. The mean of each data set is 2.
- B. The mean of each data set is 4.
- C. The mean of data set A is less than the mean of data set B.
- D. The mean of data set A is greater than the mean of data set B.



The number of acres of useful timberland in 13 counties in California is summarized in the box plot above. Which of the following is closest to the median number of acres?

- A. 4,399
- B. 7,067
- C. 8,831
- D. 10,595

A study was conducted on the production rates for a company that produces tractor wheels. The table below shows the number of wheels made during 11 consecutive one-hour production periods.

| One-hour period | Number of wheels made |
|-----------------|-----------------------|
| A               | 24                    |
| B               | 24                    |
| C               | 21                    |
| D               | 21                    |
| E               | 21                    |
| F               | 19                    |
| G               | 24                    |
| H               | 24                    |
| I               | 19                    |
| J               | 22                    |
| K               | 23                    |

What is the range of the number of wheels made for the 11 one-hour periods?

- A. 5.5
- B. 5.0
- C. 4.5
- D. 4.0

| Response                   | Frequency |
|----------------------------|-----------|
| Once a week or more        | 3         |
| Two or three times a month | 16        |
| About once a month         | 26        |
| A few times a year         | 73        |
| Almost never               | 53        |
| Never                      | 29        |
| Total                      | 200       |

The table gives the results of a survey of **200** people who were asked how often they see a movie in a theater. How many people responded either “never” or “almost never”?

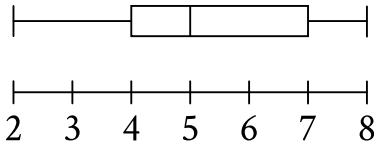
- A. **24**
- B. **53**
- C. **82**
- D. **118**

Five Smallest Countries in 2016

| Country      | Land area<br>(square kilometers) |
|--------------|----------------------------------|
| Monaco       | 2.0                              |
| Nauru        | 21                               |
| San Marino   | 61                               |
| Tuvalu       | 26                               |
| Vatican City | 0.44                             |

The table above shows the land area, in square kilometers, of the five smallest countries of the world in 2016. Based on the table, what is the mean land area of the 5 smallest countries in 2016, to the nearest square kilometer?

- A. 20
- B. 22
- C. 61
- D. 110



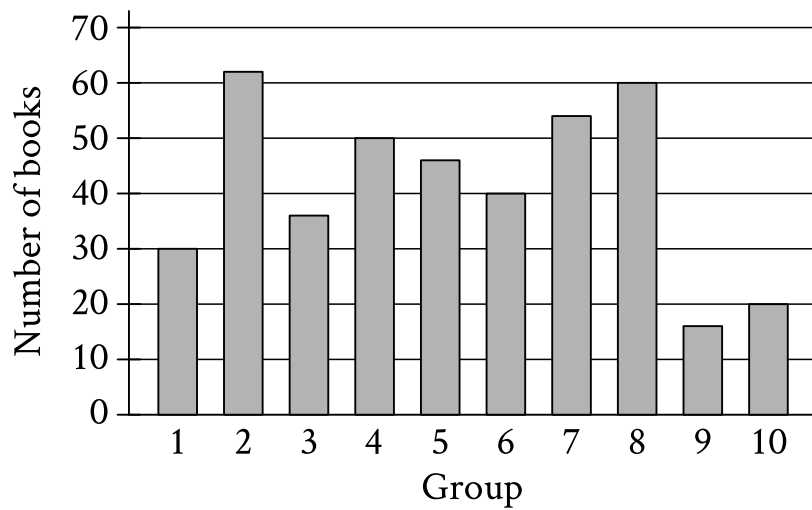
The box plot summarizes **15** data values. What is the median of this data set?

A. **2**

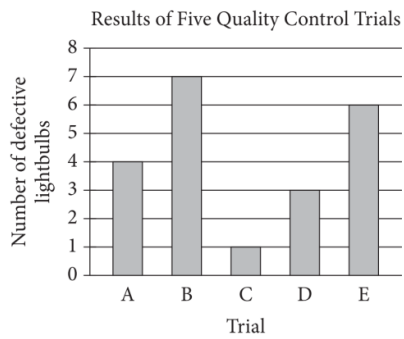
B. **3**

C. **5**

D. **8**



The bar graph shows the distribution of ~~414~~ books collected by **10** different groups for a book drive. How many books were collected by group **1**?



For quality control, a company that manufactures lightbulbs conducted five different trials. In each trial, 500 different lightbulbs were tested. The bar graph above shows the number of defective lightbulbs found in each trial. What is the mean number of defective lightbulbs for the five trials?

- A. 4.0
- B. 4.2
- C. 4.6
- D. 5.0



The high temperature, in degrees Fahrenheit ( $^{\circ}\text{F}$ ), in a certain city was recorded for each of 5 days. The data are shown below.

| Day                                     | 1  | 2  | 3  | 4  | 5  |
|---|----|----|----|----|----|
| High temperature ( $^{\circ}\text{F}$ ) | 81 | 80 | 81 | 81 | 82 |

Over this 5-day period, which of the following is NOT equal to  $81^{\circ}\text{F}$ ?

- A. Median of the high temperatures
- B. Mean of the high temperatures
- C. Mode of the high temperatures
- D. Range of the high temperatures

Number of High School Students Who  
Completed Summer Internships

| High<br>school | Year |      |      |      |      |
|----------------|------|------|------|------|------|
|                | 2008 | 2009 | 2010 | 2011 | 2012 |
| Foothill       | 87   | 80   | 75   | 76   | 70   |
| Valley         | 44   | 54   | 65   | 76   | 82   |
| Total          | 131  | 134  | 140  | 152  | 152  |

The table above shows the number of students from two different high schools who completed summer internships in each of five years. No student attended both schools. Which of the following statements are true about the number of students who completed summer internships for the 5 years shown?

1. The mean number from Foothill High School is greater than the mean number from Valley High School.
2. The median number from Foothill High School is greater than the median number from Valley High School.

- A. I only
- B. II only
- C. I and II
- D. Neither I nor II