

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

ID: cf40e194

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

Question ID 869b99d4

Assessment	Test	Domain	Skill	Difficulty
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ID: 869b99d4

73, 74, 75, 77, 79, 82, 84, 85, 91
What is the median of the data shown?

79 //

Question ID 57dfc866

Assessment	Test	Domain	Skill	Difficulty
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ID: 57dfc866

Type of store	Average number of employees
Warehouse store	365
Department store	213
Supermarket	130

For a certain region, the table shows the average number of store employees in **2016** by type of store. Based on the table, how much greater was the average number of store employees in warehouse stores than in supermarkets?

- A. 83
- B. 152
- ~~C. 235~~
- D. 495

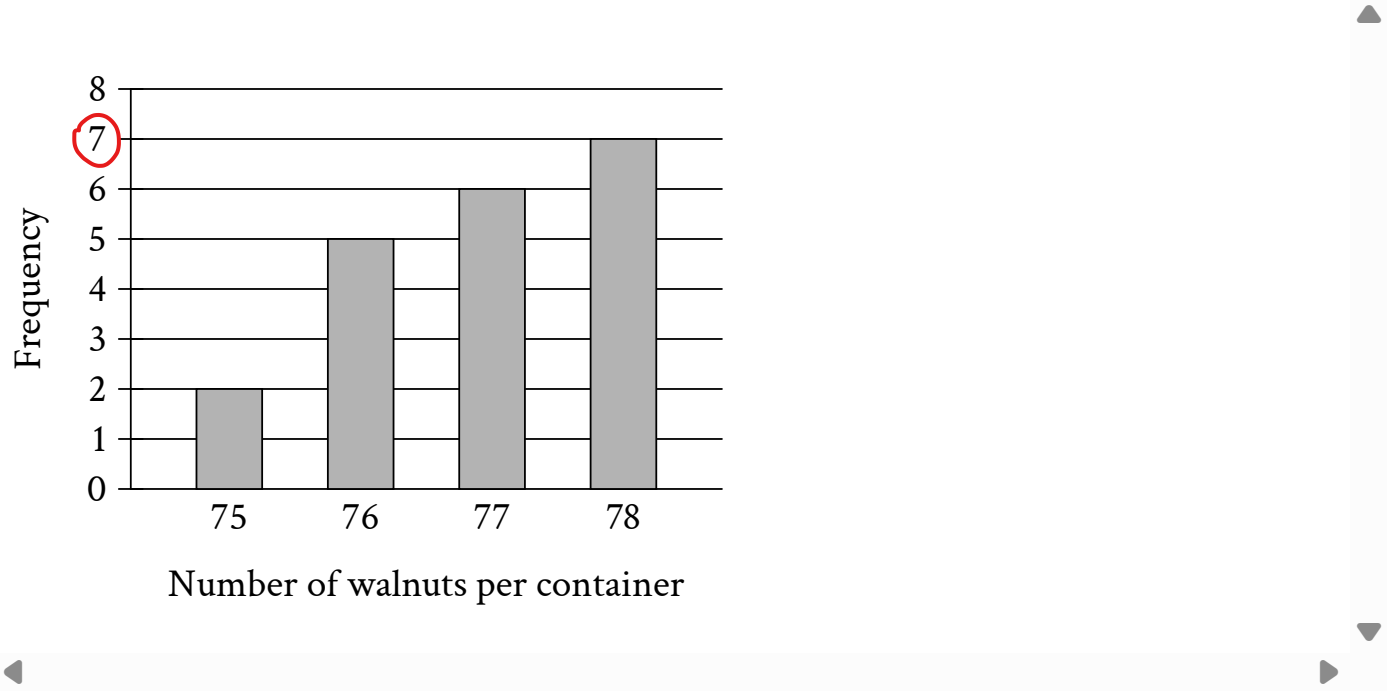
$|365 - 130| = 235 //$

Question ID 642a02cc

Assessment	Test	Domain	Skill	Difficulty
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ID: 642a02cc

The bar graph shows the distribution of the number of walnuts per container for **20** containers at a grocery store.



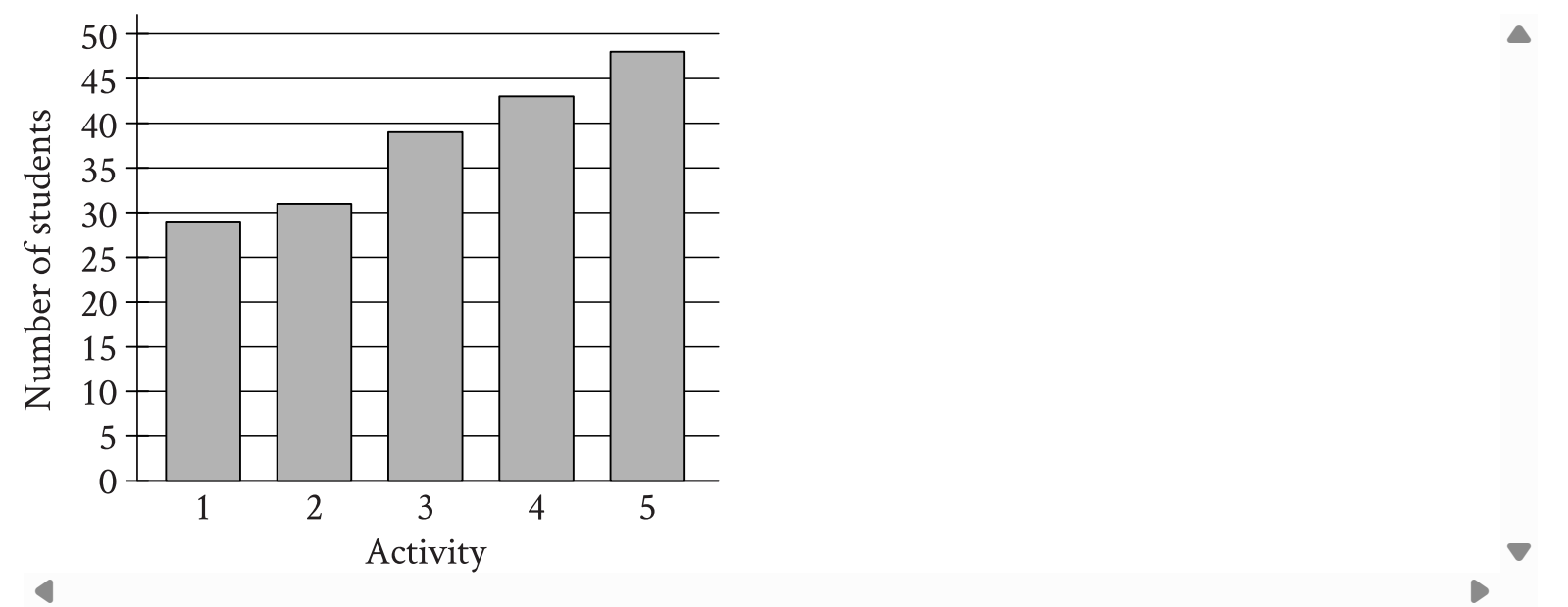
How many of these containers of walnuts contain exactly 78 walnuts?

- A. 2
- ~~B. 7~~
- C. 20
- D. 78

Question ID a914defa

Assessment	Test	Domain	Skill	Difficulty
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ID: a914defa



A group of students voted on five after-school activities. The bar graph shows the number of students who voted for each of the five activities. How many students chose activity 3?

- A. 25
- ~~B. 39~~
- C. 48
- D. 50

Question ID 362aaa23

Assessment	Test	Domain	Skill	Difficulty
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ID: 362aaa23

Data set X: 5, 9, 9, 13 $\bar{X} = 9$
Data set Y: 5, 9, 9, 13, 27 $\bar{Y} = 12.6$

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 77611205

Assessment	Test	Domain	Skill	Difficulty
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ID: 77611205



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

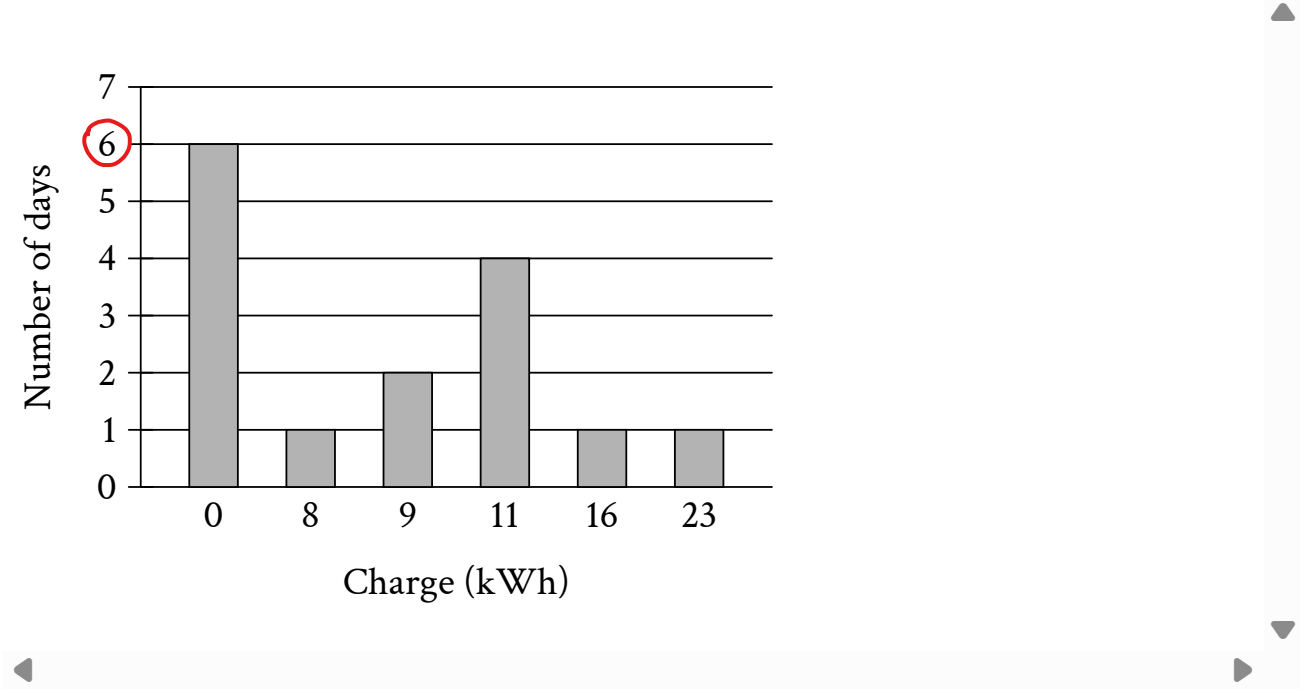
- A. 2
- B. 3
- ~~C. 5~~
- D. 8

Question ID bec79537

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

ID: bec79537

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



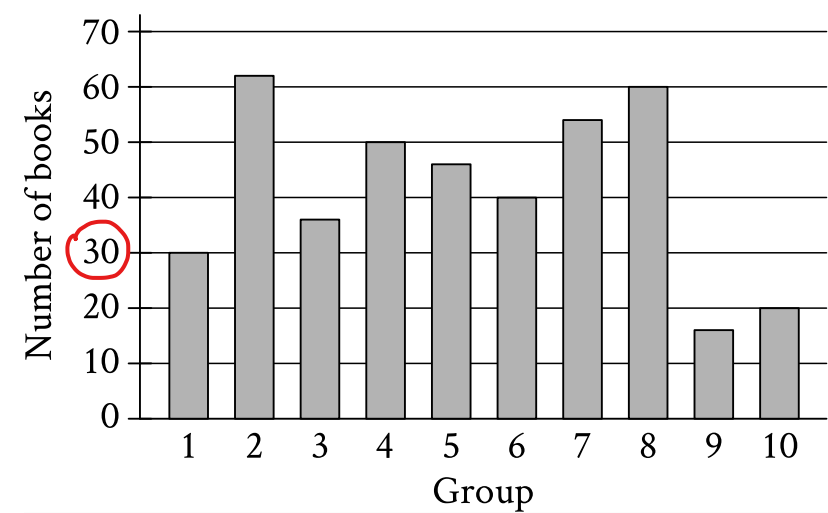
For how many of these 15 days did the battery receive a charge of 0 kWh?

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

Question ID 5c216e8e

Assessment	Test	Domain	Skill	Difficulty
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ID: 5c216e8e



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?

30 //

Question ID 93aef3fa

Assessment	Test	Domain	Skill	Difficulty
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ID: 93aef3fa



In April, there were 43 volunteers in a cleanup project. Each volunteer was asked to choose a small gift labeled A, B, C, or D. The bar graph shows the number of volunteers who chose each gift. How many volunteers chose gift C?

- A. 3
- B. 8
- C. 14
- ~~D. 18~~

Question ID f66febb9

Assessment	Test	Domain	Skill	Difficulty
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ID: f66febb9

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

Which frequency table correctly represents the data listed?

X.

Number	Frequency
4	4
8	3
13	2

B.

Number	Frequency
4	4
~~8~~	8
2	13

C.

Number	Frequency
4	16
8	~~24~~
13	26

D.

Number	Frequency
16	4
24	~~8~~
26	13

Question ID 7d0a15b8

Assessment	Test	Domain	Skill	Difficulty
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ID: 7d0a15b8

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?

$\bar{x} = 10 //$

Question ID 362eb17d

Assessment	Test	Domain	Skill	Difficulty
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ID: 362eb17d

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?

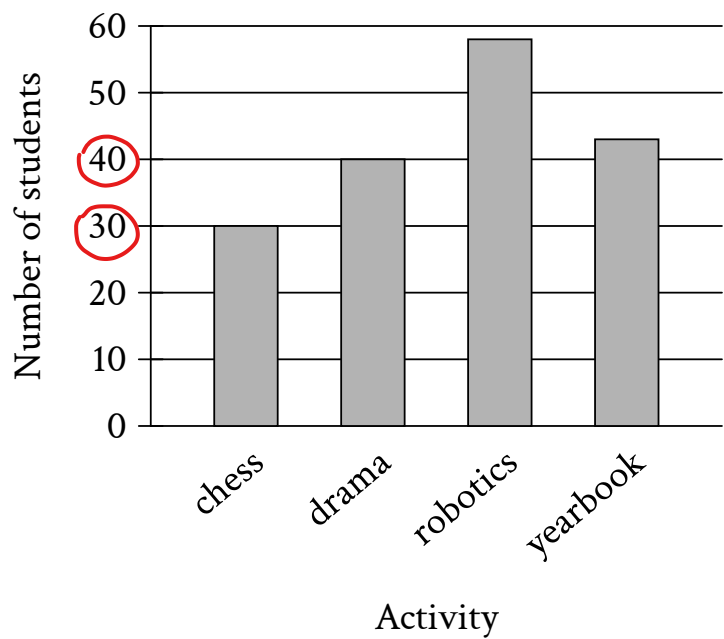
$\bar{x} = 9$

Question ID 600ff5c7

Assessment	Test	Domain	Skill	Difficulty
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ID: 600ff5c7

The bar graph shows the distribution of the number of students in each of four extracurricular activities at a high school.



How many more students are in drama than in chess?

- ~~A. 10~~
- B. 30
- C. 40
- D. 70
- $|40 - 30| = 10 //$

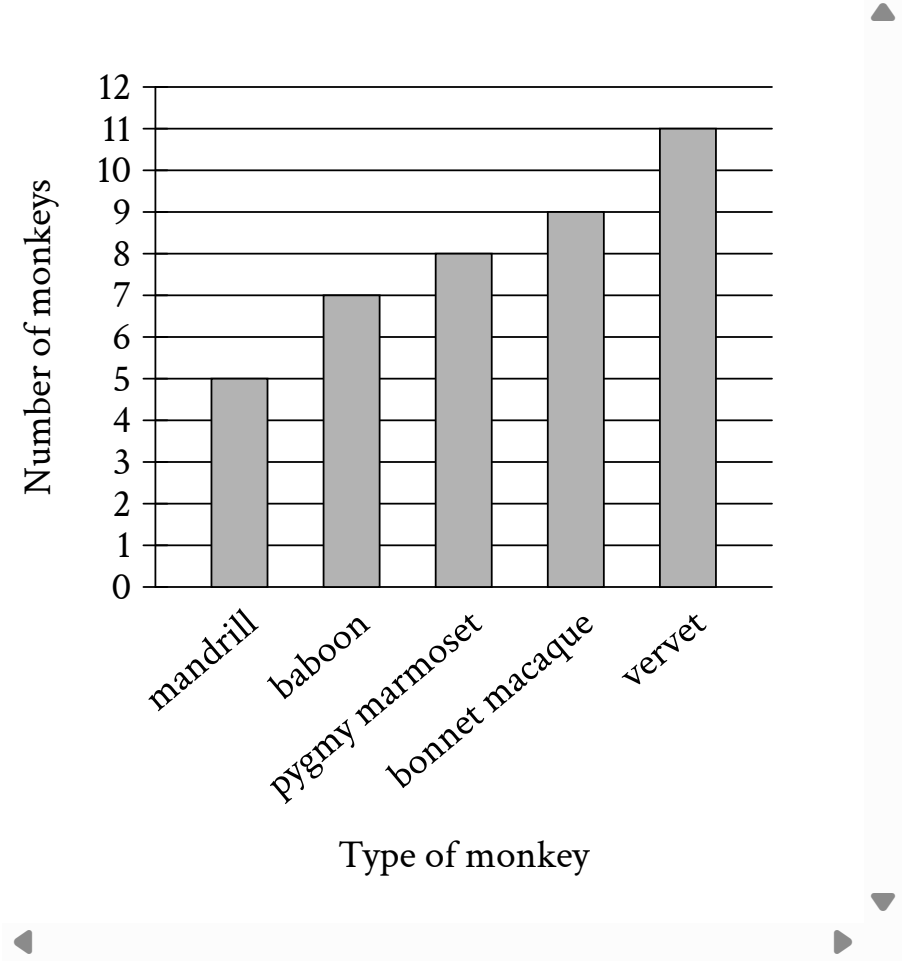
Question ID b93d6b2a

Assessment	Test	Domain	Skill	Difficulty
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ID: b93d6b2a



The bar graph shows the number of each type of monkey in a sanctuary.



How many more vervets are in this sanctuary than mandrills?

- A. 11
- B. 6
- C. 5
- D. 3

Question ID 56ffb2eb

Assessment	Test	Domain	Skill	Difficulty
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ID: 56ffb2eb

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

$\bar{x}_{\text{original}} = 143.2$
 $\bar{x}_{\text{total}} = 139.5$

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 bbbc726e

Assessment	Test	Domain	Skill	Difficulty
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ID: bbbc726e

6, 6, 8, 8, 10, 21

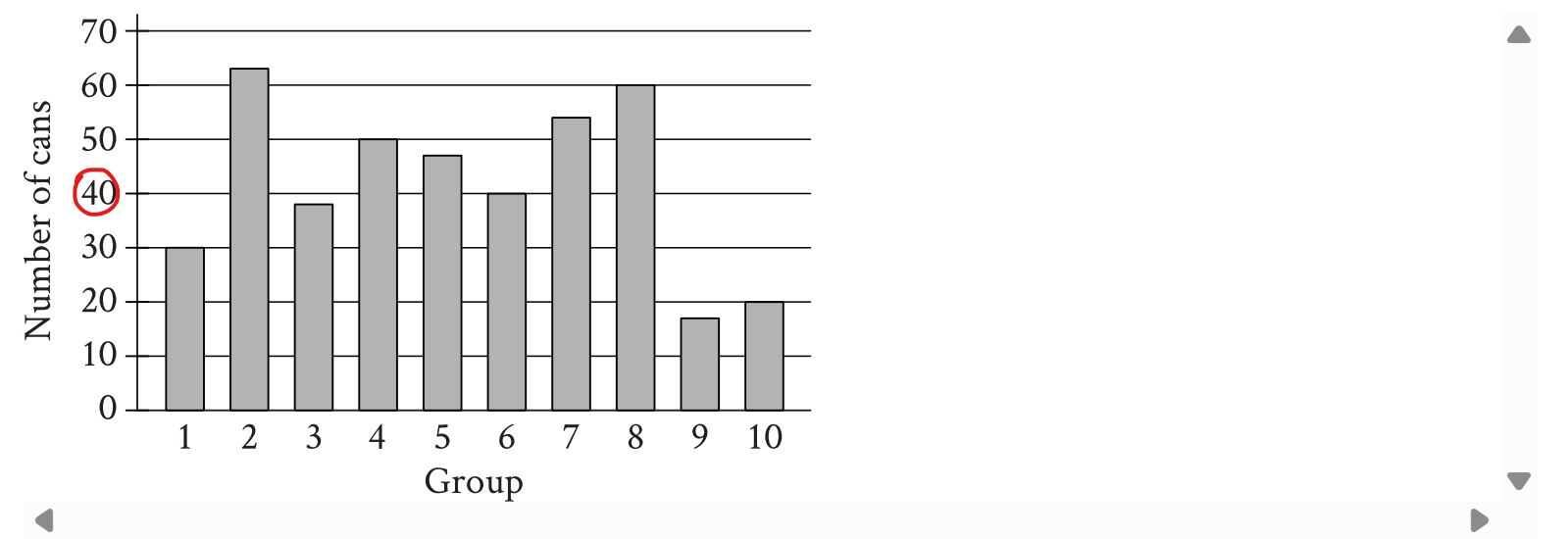
Which of the following lists represents a data set that has the same median as the data set shown?

- A. 4, 6, 6, 6, 8, 86
- ~~B.~~ 6, 6, 8, 8, 10, 108
- C. 6, 8, 10, 10, 10, 1210
- D. 8, 8, 10, 10, 21, 2110

Question ID cee00570

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

ID: cee00570



The bar graph shows the distribution of 419 cans collected by 10 different groups for a food drive. How many cans were collected by group 6?

40 //

Question ID bc574cd6

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

ID: bc574cd6



A data set consists of **173** colors. The bar graph shows the number of times each color appears in the data set. Which color appears **70** times?

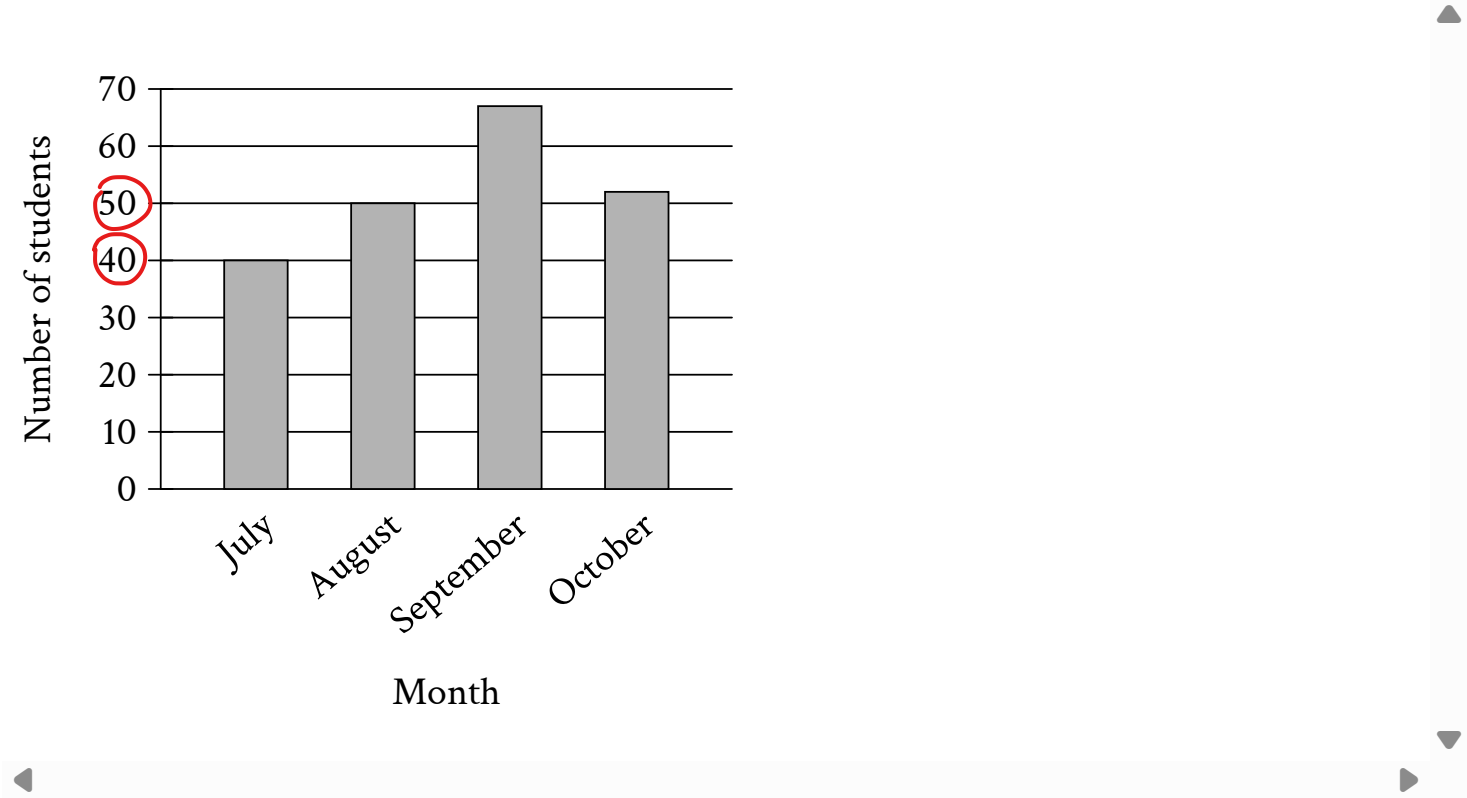
- A. Blue
- ~~B. Green~~
- C. Red
- D. Yellow

Question ID ca196792

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

ID: ca196792

The bar graph shows the distribution of the number of students from one school who were born in one of four months.



How many more students were born in August than were born in July?

- A. 90
- B. 50
- C. 40
- ~~D. 10~~

$|50 - 40| = 10 //$

Question ID 87c015b7

Assessment	Test	Domain	Skill	Difficulty
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ID: 87c015b7

71, 72, 73, 76, 77, 79, 83, 87, 93

What is the median of the data shown?

- A. 71
- ~~B. 77~~
- C. 78
- D. 79

Question ID 12dcd572

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

ID: 12dcd572

2, 9, 14, 23, 32

What is the mean of the data shown?

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

$\overline{X} = 16$