

4. This data represents 12 scores on a math test:

2, 6, 7, 10, 16, 18, 22, 22, 28, 28, 31, 37

What is the median score?

- a. 20
- b. 18
- c. 22
- d. 19

ANS: A

| | Feedback |
|---|--|
| A | Correct!! |
| B | This is the sixth member of the array! |
| C | This is the seventh member of the array! |
| D | You have calculated incorrectly. Check your addition and division. |

PTS: 1 DIF: Grade 7

REF: 7SDP.1.0 Students collect, organize, and represent data sets that have one or more variables and identify relationships among variables within a data set by hand and through the use of an electronic spreadsheet software program

OBJ: 7SDP.1.2 Represent two numerical variables on a scatterplot and informally describe how the data points are distributed and any apparent relationship that exists between the two variables (e.g., between time spent on homework and grade level).

TOP: Statistics, Data Analysis and Probability

MSC: LFS-541

5. This data represents 12 scores on a math test:

2, 5, 9, 10, 16, 17, 22, 22, 26, 30, 31, 37

What is the highest score?

- a. 37
- b. 38
- c. 31
- d. 39

ANS: A

| | Feedback |
|---|--|
| A | Correct!! |
| B | 38 is not a member of the array. |
| C | Look at the array again this is not the highest score! |
| D | 39 is not a member of the array. |

PTS: 1 DIF: Grade 7

REF: 7SDP.1.0 Students collect, organize, and represent data sets that have one or more variables and identify relationships among variables within a data set by hand and through the use of an electronic spreadsheet software program

OBJ: 7SDP.1.3 Understand the meaning of, and be able to compute, the minimum, the lower quartile, the median, the upper quartile, and the maximum of a data set.

TOP: Statistics, Data Analysis and Probability

MSC: LFS-541

6. This data represents 12 scores on a math test:

4, 4, 7, 12, 14, 16, 22, 24, 26, 29, 33, 36

What is the lowest score?

- a. 4
- b. 3
- c. 2
- d. 4

ANS: A

| | Feedback |
|---|---|
| A | Correct!! |
| B | 3 is not a member of the array. |
| C | 2 is not a member of the array. |
| D | Look at the array again this is not the lowest score! |

PTS: 1 DIF: Grade 7

REF: 7SDP.1.0 Students collect, organize, and represent data sets that have one or more variables and identify relationships among variables within a data set by hand and through the use of an electronic spreadsheet software program

OBJ: 7SDP.1.3 Understand the meaning of, and be able to compute, the minimum, the lower quartile, the median, the upper quartile, and the maximum of a data set.

TOP: Statistics, Data Analysis and Probability

MSC: LFS-541

9. This data shows the average amount of time 20 children, aged between six and twelve years old, spent on homework last week.

Look at the scores for **11-yearolds**. What is the range in time spent on homework?

| # | Age | Time | | # | Age | Time |
|----|-----|------|--|----|-----|------|
| 1 | 6 | 7 | | 11 | 9 | 60 |
| 2 | 6 | 14 | | 12 | 9 | 67 |
| 3 | 6 | 17 | | 13 | 9 | 71 |
| 4 | 7 | 21 | | 14 | 10 | 80 |
| 5 | 7 | 29 | | 15 | 10 | 85 |
| 6 | 7 | 34 | | 16 | 11 | 70 |
| 7 | 8 | 44 | | 17 | 11 | 77 |
| 8 | 8 | 47 | | 18 | 11 | 87 |
| 9 | 8 | 52 | | 19 | 12 | 61 |
| 10 | 9 | 42 | | 20 | 12 | 90 |

- a. 70 - 87
 b. 21 - 34
 c. 16 - 24
 d. 65 - 98

ANS: A

| | Feedback |
|---|--|
| A | Correct! |
| B | This is the range of the 7- yearolds |
| C | Look at the table again, this range doesn't represent anything ! |
| D | Look at the table again, this range doesn't represent anything ! |

PTS: 1

DIF: Grade 7

REF: 7SDP.1.0 Students collect, organize, and represent data sets that have one or more variables and identify relationships among variables within a data set by hand and through the use of an electronic spreadsheet software program

OBJ: 7SDP.1.2 Represent two numerical variables on a scatterplot and informally describe how the data points are distributed and any apparent relationship that exists between the two variables (e.g., between time spent on homework and grade level).

TOP: Statistics, Data Analysis and Probability

MSC: LFS-541