



Name \_\_\_\_\_ Date \_\_\_\_\_

## Central Frequency: Finding the Median

Objective: How to find the Median in a list of odd number of numbers.

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What is a snake's favorite part of school?

C

Instructions: The median of a list of numbers found by ordering them from least to greatest. If the list has an odd number of numbers, the middle number in this ordering is the median.

**Example:** Find the median of these numbers. 3, 2, 5, 4, 6

**Step #1** Ordering the data from least to greatest: 2,3,4,5,6

**Step #2** Find the number in the middle: 4

**Final Statement:** The median is 4.

**Question #1** Find the median of these numbers. 12, 16, 11, 17, and 18.

Work

**Final Statement:**

**Question #2** Find the median of these numbers. 500, 300, 400, 900, 700

Work

**Final Statement:**

**Question #3** Find the median of these numbers. 3, 6, 8, 12, 17, 44, 45

Work

**Final Statement:**

**Question #4** Find the median of these numbers. 85,78,90,91,88,86,73,84,90,95,60

Work

**Final Statement:**

**Question #5** Find the median of these numbers. \$215, \$211, \$246, \$213, \$287, \$298, \$255

Work

**Final Statement:**

**Question #6** The tallest 7 trees in a park have heights in meters of 41, 60, 47, 42, 44, 42, and 47. Find the median heights.

Work

**Final Statement:**

**Question #7** This is the amount of money that Mary earned each week over an 9 week period babysitting for her neighbor: \$17.00,\$22.00,\$26.00,\$20.00,\$35.00,\$26.00,\$21.00,\$18.00,\$19.00. Find the median amount.

Work

**Final Statement:**

**Question #8** During one of the cold weeks of the winter these were the recorded low temperatures:  $4^{\circ}$ ,  $8^{\circ}$ ,  $3^{\circ}$ ,  $7^{\circ}$ ,  $0^{\circ}$ ,  $0^{\circ}$  and  $9^{\circ}$ . Find the median temperature.

Work

**Final Statement:**

**Question #9** Jake received the following test grades on his last 7 quizzes:79, 88, 75, 71, 89, 80 and 92 What was his median grade?

Work

**Final Statement:**

**Question #10** In her last 5 games Sara has scored the following number of points: 12, 16, 11, 17, and 18. What is the median of these scoring totals?

Work

**Final Statement:**

**Question #11** What is the median age of the 7 children whose ages are:11, 10, 13, 11, 12, 16 and 14?

Work

**Final Statement:**

**Question #12** Mr. and Mrs. Rodriguez collected donations of \$50, \$125, \$10, \$210, \$50, \$24, and \$175 for charity. What is the median amount?

Work

**Final Statement:**

**Question #13** Students in Mrs. Self's math class made the following scores on the mid-chapter review: 87, 78, 89, 78, 93, 80, 86, 88 and 77. Calculate the median of the scores.

Work

**Final Statement:**

**Question #14** What is the median score on this surprise quiz? The quiz results are: 95, 94, 78, 80, 88, 85 and 90.

Work

**Final Statement:**

**Question #15** The nurse recorded the number of people who donated blood in 10 community blood drives. . She recorded the following number of donors: 60, 64, 52, 62, 58, 57, 64, 64, 68 and 52. What is the median number of donors?

Work

**Final Statement:**

Make up a question of your own.



Answer Key \_\_\_\_\_

Date \_\_\_\_\_

## Central Frequency: Finding the Median

Objective: How to find the Median in a list of odd number of numbers using presented data.

What is a snake's favorite part of school? *Recessssssss!*

C

Instructions: The median of a list of numbers found by ordering them from least to greatest. If the list has an odd number of numbers, the middle number in this ordering is the median.

**Example:** Find the median of these numbers. 3, 2, 5, 4, 6

**Step #1** Ordering the data from least to greatest: 2,3,4,5,6

**Step #2** Find the number in the middle: 4

**Final Statement:** The median is 4.

**Question #1** Find the median of these numbers. 12, 16, 11, 17, and 18.

Work: 11,12,16,17,18

There is an odd number of items in the set. Therefore, the median is the middle number.

**Final Statement:** The median is 16

**Question #2** Find the median of these numbers. 500, 300, 400, 900, 700

Work: 300,400,500,700,900

There is an odd number of items in the set. Therefore, the median is the middle number.

**Final Statement:** The median is 500.

**Question #3** Find the median of these numbers. 3, 6, 8, 12, 17, 44, 45

Work: 3,6,8,12,17,44,45

There is an odd number of items in the set. Therefore, the median is the middle number.

**Final Statement:** The median is 12.

**Question #4** Find the median of these numbers. 85,78,90,91,88,86,73,84,90,95,60

Work: 60,73,78,84,85,86,88,90,90,91,95

There is an odd number of items in the set. Therefore, the median is the middle number.

**Final Statement:** The median is 86.

**Question #5** Find the median of these numbers. \$215, \$211, \$246, \$213, \$287, \$298, \$255

Work: \$211,\$213,\$215,\$246,\$255,\$287,\$298

There is an odd number of items in the set. Therefore, the median is the middle number.

**Final Statement: The median is \$246.**

**Question #6** The tallest 7 trees in a park have heights in meters of 41, 60, 47, 42, 44, 42, and 47. Find the median of their heights.

Work: 41,42,42,44,47,47,60

There is an odd number of items in the set. Therefore, the median is the middle number.

**Final Statement: The median height is 44**

**Question #7** This is the amount of money that Mary earned each week over an 8 week period babysitting for her neighbor: \$17,\$22,\$26,\$20,\$35,\$26,\$21,\$18,\$19 find the median for these amounts.

Work: \$17,\$18,\$19,\$20,\$21,\$22,\$26,\$26,\$35

There is an odd number of items in the set. Therefore, the median is the middle number.

**Final Statement: The median amount is \$21.**

**Question #8** During one of the cold weeks of the winter these were the recorded low temperatures:  $4^{\circ}$ ,  $8^{\circ}$ ,  $3^{\circ}$ ,  $7^{\circ}$ ,  $0^{\circ}$ ,  $0^{\circ}$ ,  $9^{\circ}$  find the median for these amounts.

Work:  $0^{\circ}$ ,  $0^{\circ}$ ,  $3^{\circ}$ ,  $4^{\circ}$ ,  $7^{\circ}$ ,  $8^{\circ}$ ,  $9^{\circ}$

There is an odd number of items in the set. Therefore, the median is the middle number.

**Final Statement: The Median temperature is  $4^{\circ}$**

**Question #9** Jake received the following test grades on his last 7 quizzes: 79, 88, 75, 71, 89, 80, 92 What was his median grade?

Work: 71, 75, 79, 80, 88, 89, 92

There is an odd number of items in the set. Therefore, the median is the middle number.

**Final Statement: The median grade is 80.**

**Question #10** In her last 5 games Sara has scored the following number of points respectively: 12, 16, 11, 17, and 18. What is the median of these scoring totals?

Work: 11, 12, 16, 17, 18

There is an odd number of items in the set. Therefore, the median is the middle number.

**Final Statement: The median score is 16.**

**Question #11** What is the median age of the 7 children whose ages are: 11, 10, 13, 11, 12, 16, 14

Work: 10, 11, 11, 12, 15, 14, 16

There is an odd number of items in the set. Therefore, the median is the middle number.

**Final Statement: The median age is 12.**

**Question #12** Mr. and Mrs. Rodriguez collected donations of \$50, \$125, \$10, \$210, \$50, \$24, and \$175 for charity. What is the median amount?

Work: \$10, \$24, \$50, \$50, \$125, \$175, \$210

There is an odd number of items in the set. Therefore, the median is the middle number.

**Final Statement: The median amount is \$50.**

**Question #13** Students in Mrs. Self's math class made the following scores on the mid-chapter review: 87, 78, 89, 79, 93, 80, 86, 88 and 77. Calculate the median of the scores.

Work: 77, 78, 79, 80, 86, 88, 87, 89, 93

There is an odd number of items in the set. Therefore, the median is the middle number.

**Final Statement: The median score is 86.**

**Question #14** What is the median score on this surprise quiz? 95, 94, 78, 80, 88, 85, 90

Work: 78, 80, 85, 88, 90, 94, 95

There is an odd number of items in the set. Therefore, the median is the middle number.

**Final Statement: The median score is 88.**

**Question #15** The nurse recorded data on the number of people who donated blood in the last 11 community blood drives. 60, 64, 52, 62, 58, 57, 64, 66, 68, 52, 65 What is the median number of donors.

Work: 52, 52, 57, 58, 60, 62, 64, 64, 65, 66, 68

There is an odd number of items in the set. Therefore, the median is the middle number.

**Final Statement: The median number of donors is 62.**

Student question. Answers will vary