Name_____ Date_____ Period_____

**LESSON 2-3 · SESSION 1 · PRACTICE · FORM A**

# Finding the Median

Learning target – I can find the median of a data set by ordering the values and taking the middle one. · 6.SP.B.5c

**REMEMBER**

- The **median** is the middle value of a data set **in order**.
- Order the values. Cross off one value from each end until **one** value is left.
- Changing the greatest (or least) value does **not** move the median.

**WORKED EXAMPLE**

Find the median of 7, 2, 9, 4, 6.

**Step 1** Order: 2, 4, 6, 7, 9.

**Step 2** Cross off 2 and 9, then 4 and 7.

**Step 3** One value is left: 6.

**Answer** **Median = 6**

**WORDS** **median** *(mediana)* · **data set** *(conjunto de datos)* · **order** *(ordenar)*

## PRACTICE

*show your work · label units*

**1. Club Sizes.** Nine clubs have this many members: 14, 9, 22, 17, 11, 25, 19, 13, 20. Write the values in order. Then find the median.

**Hint** *Nine values: the median is the 5th in order.*

| Order | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| Value | | | | | | | | | |

**Median**_____

**2. Homework Minutes.** Five students: 45, 20, 35, 15, 30 minutes.

**a.** Median: ____

**b.** Values above the median: ____

**3. Trail Lengths.** Seven trails (km): 4, 11, 7, 2, 9, 6, 12.

**Hint** *Changing the greatest value does not move the middle.*

**a.** Median: ____

**b.** If 12 km became 20 km, new median: ____

**4. Pizza Slices.** Seven lunch periods sold these numbers of slices: 34, 51, 42, 29, 47, 38, 45. Find the median.

*Show your work.*

**Answer**_____ slices

**5. Median Claim.** For the values 31, 12, 27, 18, 23, Owen says the median is 27 because it is in the middle of the list as written. Is Owen right? Find the median.

**Hint** *The median comes from an ordered list.*

☐ Yes ☐ No

**Median**_____

**6. Unknown Tallest.** Five plant heights (cm) are 26, 14, 38, 32 and one more value that is the tallest of all. Find the median. Explain why the unknown value cannot change it.

*Show your work.*

**Answer**_____ cm

**7. Two Sets, One Median.** Set A is 21, 25, 29, 33, 37. Set B is 21, 25, 29, 33, 90. Find each median. Why do they match?

**Hint** *Only the last value changed. Where is the middle?*

**a.** Median of each set: _____

**b.** Why they match:

**8. Team Heights.** Seven players measure 58, 61, 55, 64, 59, 62, 57 inches.

**a.** Find the median height. _____ in.

**b.** A 70-inch player replaces the 64-inch player. New median: _____ in.

**c.** Why is the median useful when one player is much taller?

*Show your work.*

## FIND THE ERROR

*explain the mistake, then fix it*

**9. Alonzo's Work.** For 7, 2, 9, 4, 6, Alonzo wrote: "The median is 9 because 9 is the largest value." Explain the mistake and find the median.

## TEST PRACTICE

*choose the best answer*

**10.** What is the median of 3, 8, 5, 9, 6?

**A** 5 **B** 6 **C** 8 **D** 9

**11.** What is the median of 12, 15, 11, 19, 14, 20, 17?

**A** 19 **B** 14 **C** 15 **D** 17

**SELF-CHECK CODE** *find your answer · copy its letter into that problem's box · spell a math word*

| 27 | 30 | 11 | 59 | 29 | 7 | 42 | 32 | 17 | 23 |
|---|---|---|---|---|---|---|---|---|---|
| Q | R | Z | G | N | D | E | I | O | R |

| #1 | #2a | #3a | #4 | #5 | #6 | #7a | #8a |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**CHECK YOURSELF** ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #___