Name_____ Date_____ Period_____

LESSON 2-3 · SESSION 1 · PRACTICE · FORM B

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. Season Goals. Nine teams scored this many goals: 16, 8, 23, 12, 27, 18, 10, 21, 15. 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. Reading Minutes. Five students: 40, 25, 50, 10, 35 minutes.

a. Median: ____

b. Values above the median: ____

3. Trail Lengths. Seven trails (km): 5, 13, 8, 3, 10, 7, 15.

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

a. Median: ____

b. If 15 km became 30 km, new median: ____

4. Bagels Sold. Seven lunch periods sold these numbers of bagels: 36, 53, 44, 31, 49, 40, 47. Find the median.

Show your work.

Answer_____ bagels

5. Median Claim. For the values 41, 16, 35, 22, 28, Lucia says the median is 35 because it is in the middle of the list as written. Is Lucia right? Find the median.

Hint *The median comes from an ordered list.*

☐ Yes ☐ No

Median _____

6. Unknown Tallest. Five plant heights (cm) are 33, 18, 45, 27 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 14, 18, 22, 26, 30. Set B is 14, 18, 22, 26, 85. 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 60, 63, 57, 66, 61, 64, 59 inches.

a. Find the median height. _____ in.

b. A 72-inch player replaces the 66-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. Maya's Work. For 8, 3, 10, 5, 7, Maya wrote: "The median is 10 because 10 is the largest value." Explain the mistake and find the median.

TEST PRACTICE

choose the best answer

10. What is the median of 4, 9, 6, 10, 7?

A 6 **B** 9 **C** 7 **D** 10

11. The median of 9 ordered values is the –

A 4th value **B** 5th value **C** 9th value **D** largest value

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

44	61	8	45	35	16	27	33	28	22
I	N	S	Z	O	P	Q	I	T	O

#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 #___