Name_____ Date_____ Period_____

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

Median of an Even Data Set

Learning target – I can find the median of a data set with an even number of values by averaging the two middle values. · 6.SP.B.5c

REMEMBER

- Order the values. With an **even** count, **two** values are left in the middle.
- The median is the **average** of the two middle values: add them, then divide by 2.
- The median does **not** have to be one of the data values.

WORKED EXAMPLE

Find the median of 15, 8, 19, 12.

Step 1 Order: 8, 12, 15, 19.

Step 2 Middle values: 12 and 15.

Step 3 (12 + 15) ÷ 2 = 27 ÷ 2 = 13.5

Answer **Median = 13.5**

WORDS **median** *(mediana)* · **middle values** *(valores centrales)* · **average** *(promedio)*

PRACTICE

show your work · label units

1. Lap Times. Eight runners finished in 72, 85, 69, 90, 77, 81, 74, 88 seconds. Write the times in order. Then find the median.

Hint *Eight values: average the 4th and 5th in order.*

Order	1	2	3	4	5	6	7	8
Value								

Answer_____ seconds

2. Book Bins. Six bins held 16, 27, 11, 31, 26, 13 books.

a. Median: ____

b. Is it one of the six values? ____

3. Four Prices. Four snacks cost $2.15, $1.85, $2.65, $2.35. Find the median price.

Hint *Average the two middle prices.*

Show your work.

Answer_____ dollars

4. Hat Sale. Six hat prices (dollars) are 26, 44, 42, 22, 52, 30. Find the median price.

Hint *Cross off from both ends until two values remain.*

Show your work.

Answer_____ dollars

5. Two More Readers. Five reading times are 15, 30, 40, 55, 60 minutes. Then two more readers report 20 and 35 minutes.

a. First five: ___ **b.** All seven: ___ **c.** Up or down? ___

6. Ines's Claim. The ordered set 22, 26, 30, 34 has a median of 28. Ines adds the value 38 and says the median is still 28. Is Ines right? Find the new median.

☐ Yes ☐ No

New median_____

7. Rainfall. Rainfall (mm) over six days was 3, 12, 8, 1, 10, 6.

Hint *With seven values, the median is the 4th in order.*

a. Find the median rainfall. _____ mm

b. A seventh day brings 25 mm. New median: _____ mm

c. Why did the median move so little?

Show your work.

8. Even and Odd. Eight reading times are 24, 37, 29, 43, 32, 39, 27, 34 minutes.

a. Find the median. _____ min

b. Why is the median not one of the eight times?

Show your work.

FIND THE ERROR

explain the mistake, then fix it

9. Malik's Work. For 5, 9, 14, 20, Malik wrote: "The median is 9 and 14 because both are in the middle." Explain the mistake and find the median.

TEST PRACTICE

choose the best answer

10. What is the median of 15, 21, 18, 24, 20, 17?

A 18 **B** 19 **C** 20 **D** 21

11. The median of 10 ordered values is the average of the –

A 1st and 10th values **B** 4th and 5th values

C 5th and 6th values **D** 6th and 7th values

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

36	8	77	7	79	35	33	2.35	2.25	21
A	E	Q	C	B	N	D	Z	L	A

#1	#2a	#3	#4	#5b	#7a	#7b	#8a

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