Name_____ Date_____ Period_____

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

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. Swim Times. Eight swimmers finished in 84, 91, 78, 96, 88, 82, 94, 86 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. Recycling Bins. Six bins held 18, 25, 12, 29, 22, 15 cans.

a. Median: ____

b. Is it one of the six values? ____

3. Four Prices. Four snacks cost $1.25, $0.95, $1.75, $1.45. Find the median price.

Hint *Average the two middle prices.*

Show your work.

Answer_____ dollars

4. Shoe Sale. Six shoe prices (dollars) are 28, 42, 36, 24, 48, 32. 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 20, 35, 45, 50, 65 minutes. Then two more readers report 25 and 40 minutes.

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

6. Zuri's Claim. The ordered set 10, 14, 18, 22, 26 has a median of 18. Zuri adds the value 30 and says the median is still 18. Is Zuri right? Find the new median.

☐ Yes ☐ No

New median_____

7. Rainfall. Rainfall (mm) over six days was 4, 11, 7, 2, 9, 5.

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

a. Find the median rainfall. _____ mm

b. A seventh day brings 20 mm. New median: _____ mm

c. Why did the median move so little?

Show your work.

8. Even and Odd. Eight reading times are 22, 35, 28, 41, 30, 37, 26, 33 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. Renata's Work. For 8, 12, 15, 19, Renata wrote: "The median is 12 and 15 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 4, 6, 10, 12?

A 6 **B** 10 **C** 8 **D** 16

11. With an even number of values, the median is the –

A largest middle value **B** average of the two middle values

C sum of the two middle values **D** first value

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

1.45 Z	6 G	40 A	86 Q	1.35 E	31.5 D	20 V	34 R	7 E	87 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 #___