

Measures of Center

Lesson 1-5

DATE _____

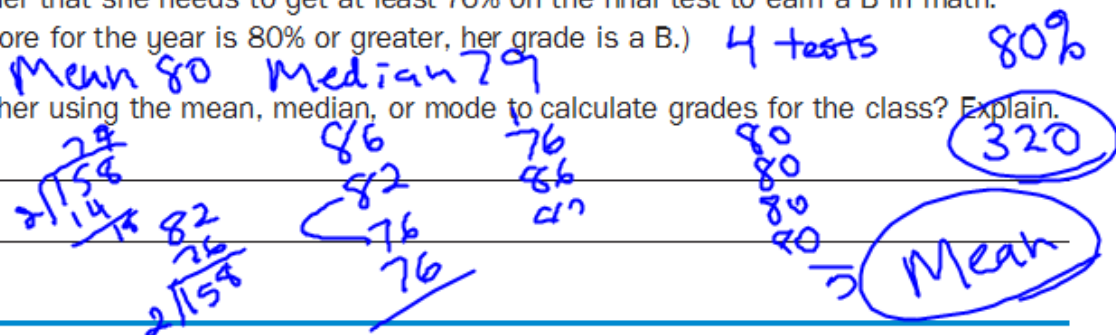
TIME _____

Math Message

SRB
204-200

Eva has the following math test scores for the school year so far: 76%, 86%, and 82%. Her teacher tells her that she needs to get at least 76% on the final test to earn a B in math. (If Eva's overall score for the year is 80% or greater, her grade is a B.)

- 1 Is Eva's teacher using the mean, median, or mode to calculate grades for the class? Explain.



- 2 Suppose it is the end of the year. You earned these test scores: 90%, 88%, 100%, and 82%. You have one more test to take this year.

- a. Suppose your teacher bases your final grade on the median of your test scores. Will you be motivated to study? Explain.

Handwritten notes for Question 2a:

- 82, 88, 90, 100, 100
- 80, 82, 88, 90, 100
- n

Handwritten notes for Question 2a:

- 82, 90, 100, 100

- b. Suppose your teacher bases your final grade on the mean of your test scores. Will you be motivated to study? Explain.

Handwritten notes for Question 2b:

- 90, 88, 100, 82
- 190 + 170

Handwritten notes for Question 2b:

- 3460 Ned
- 360 Have
- 90

- c. Suppose you score 20% on your final test. What will happen to your mean and median? Will the mean or median better represent your overall performance?

Handwritten notes for Question 2c:

- 82, 88, 90, 100
- Median 20, 82, 88, 90, 100 = 88
- Mean 20, 82, 88, 90, 100 = 380 $\sqrt{380} = 76\%$

Measures of Center (continued)

Lesson 1-5

DATE _____

TIME _____

For Problems 3–4, determine which data landmark makes the most sense for the situation. Use the data to justify your decision.

- 3 This table gives the number of calories for six popular burgers.

- a. Record the mean, median, and mode.

Mean: _____ Median: _____ Mode: 365

- b. Which of these landmarks would you use if you were trying to explain why burgers do not have too many calories? Why?

Burger	Calories
A	315
B	355
C	320
D	365
E	650
F	365

- 4 This table gives the approximate gas mileage (miles per gallon, or MPG) for a series of test drives of a sporty new car model.

- a. Record the mean, median, and mode.

Mean: _____ Median: _____ Mode: _____

- b. Which of these landmarks would you use if you were trying to sell this car? Why?

Trial	MPG
A	27
B	35
C	34
D	34
E	28
F	22

Try This

- 5 This table shows one week of high temperatures in March in Chicago.

The mean for this temperature data is 44°F.

- a. Complete the table with possible temperatures.

- b. Describe your strategy.

Day	Temp (°F)
Monday	43
Tuesday	52
Wednesday	
Thursday	
Friday	40

- c. What temperatures would give the correct mean but not make sense for the problem?

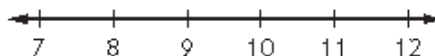


- 1 Solve.
- a. $1,572 + \underline{\hspace{2cm}} = 1,630$
- b. $86,332 = 87,532 - \underline{\hspace{2cm}}$
- c. $\underline{\hspace{2cm}} + 499 = 1,500$
- d. $\underline{\hspace{2cm}} - 1,500 = 85,000$

 SRB
118-127

- 2 Plot the following data on the dot plot.
Number of students attending tutoring:
9, 8, 12, 7, 8, 12, 9, 7, 8

Number of Students
Attending Tutoring


 SRB
283

- 3 Make an estimate. Then solve.
 $563 * 19 = ?$
Number sentence for your estimate:

Spiral

Answer: _____

 SRB
113-114

- 4 Jaleese is walking 1 mile to the grocery store. When she was $\frac{1}{2}$ of the way there, she stopped to talk to a friend. She went another $\frac{3}{8}$ of the way and stopped to say "Hi" to another friend. How much farther does she have to go?

Spiral

Solution: _____

 SRB
32

- 5 Which of the following numbers are divisible by 6?
Fill in the circle next to ALL that apply.

- A. 16
- B. 66
- C. 36
- D. 106

 SRB
103

- 6 Decide whether the two fractions are equivalent. Write *yes* or *no*.

- a. $\frac{1}{3}$ and $\frac{9}{27}$ _____
- b. $\frac{6}{7}$ and $\frac{10}{13}$ _____
- c. $\frac{14}{56}$ and $\frac{1}{4}$ _____
- d. $\frac{18}{50}$ and $\frac{54}{150}$ _____

 SRB
100

P17-18

SL15

