Mean - Find the Missing Data

Key

Mean (average) - Add all the data and divide by the number of data pieces.

to determine a missing data value given the mean, you need to work backwards (do the opposite).

Steps:

- 1. Multiply the given mean by the total number of data pieces (include the variable).
- 2. Add all the given data pieces.
- 3. Subtract step #2's sum from step #1's product.

Guided Practice

447

1. Harper wants to earn an 88% in her Chemistry class. She has one quiz left to take.

On the first 5 quizzes, she received a 74%, 92%, 83%, 98%, 100% What must she score on the 6^{th} quiz to get the 88% she wants?

81%

2. What is the value of x in the following data set?
45, 62, 72, x 59, 62; and the mean is 61

X=lele

3. What is the value of x in the following data set?

56 \times 48 Mean = 49

x=43

4. This week Sam has practiced piano for the following number of minutes: 16, 4, and 21.

Sam has one more day to practice. How many minutes should Sam practice if he wants to practice for an average of 12 minutes?

7 minutes