

Lesson 2-8 • Group 2

Reinforce Understanding

2.8 Small Group • Group 2

I can determine the mean of a data set, use a target mean to find a missing value, and explain the mean as the fair share and the balance point of the data, explain why the method works, and use it on a problem I have not seen before.

Worked model

Five afternoons of dog walking earned 14, 21, 17, 19, and 24 dollars. Find the mean.

1. Add every value. The five amounts give a total of 95 dollars.
2. Count the values. There are five of them.
3. Share the total evenly: divide it by the count of values.
4. Check: the mean should land between the least and the greatest value.

Answer: The mean is 19 dollars — what each afternoon would earn if the money were shared evenly.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Complete the table.

Complete the table. Show how you found each value.

Data Set	Total	How Many Values	Mean
6, 9, 12, 9			
20, 14, 16, 18, 22			
5, 8, 8, 11, 13, 15			

Show your work

2. Data: 10, 12, 14, 16, 18. Place a marker at the mean of this data set.

Mark and label each value on the number line.

Show your thinking

3. A data set has a mean of 20. Every value in the data set is then increased by 4. What is the new mean?

Circle the letter of the best answer. Show how you know.

- A. 5
- B. 20
- C. 24
- D. 80