

Name \_\_\_\_\_ Date \_\_\_\_\_

# Finding the Mean

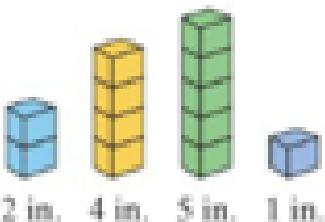
## Vocabulary:

**Measure of Center:** A value that seems typical for a data distribution.  
This value summarizes the data set values with a single value.

The **mean**, or average, is one way to measure the center of a data set.  
It can be thought of as a balance point.

### Using a Model to Find the Mean:

On four days it rained 2 inches, 4 inches, 5 inches, and 1 inch. Find the mean amount of rain.



→ Model the amount of rain for each day.



→ Next, move cubes so that the height of each stack is the same.

The mean amount of rain is \_\_\_\_\_

*#On average, it rained 3 inches each day #*

### You Try:

Use a model to find the mean of 3, 6, 3, 4, 2, and 6.

NOTES: CC.6.SP.3; 6.SP.5, 6.SP.5C

### Calculating the Mean:

Find the sum of all of the data values and then divide by how many data values there are.

#### Calculating the Mean:

You keep track of the time you spend doing homework each evening. You spend 58 minutes, 36 minutes, 44 minutes, and 37 minutes.

Find the mean of these times.

$$\begin{aligned} \text{sum} &= 58 + 36 + 44 + 37 \\ &= 175 \end{aligned}$$

$$\begin{aligned} \text{mean} &= 175 \div 4 \\ &= 43\frac{3}{4} = 43.75 \end{aligned}$$

\*On average, the student spent 43.75 minutes on HW each night.

Side:

58	36	44	37
175	175	175	175
160	160	160	160
15	15	15	15
12	12	12	12
3	3	3	3
0	0	0	0

Side:

$$\begin{array}{r} 43.75 \\ \times 4 \\ \hline 175 \\ 175 \\ \hline 175 \end{array}$$

Give it a Try...

The mean of 4 numbers is 7. Three of the numbers are 4, 7, and 7. What is the fourth number? Explain your reasoning.

$$\begin{array}{ccccccc} 4 & 7 & 7 & ? & \text{mean}=7 \\ 7 \times 4 = 28 & & & & 4+7+7 = 18 \\ & & & & 28-18 = 10 \\ & & & & 10 \text{ is the 4th number.} \end{array}$$