

Lesson 2-2 • Apply Day

Reinforce Understanding

Describing Histogram Shape

I can make and read a histogram to display data in intervals.

Worked model

A histogram has a bar of height 2 over 60-69, height 4 over 70-79, and height 2 over 80-89.

1. Sketch the bars at heights 2, 4, and 2 over the three intervals, touching with no gaps.
2. Find the peak: the tallest bar covers the interval 70-79.
3. Compare sides: the bar left of the peak and the bar right of it are the same height.
4. Matching sides mean the data is nearly symmetric around the peak.

Answer: The histogram peaks over 70-79 and is symmetric, so a typical value falls in 70-79.

Practice

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

1. A histogram has interval counts 2, 4, 3. How many data values are represented?

Complete each step, then write the final answer.

1. Add the bar frequencies: ____.
2. Total data values: ____.

Answer: _____

2. A histogram has interval counts 3, 5, 4. How many data values are represented?

Complete each step, then write the final answer.

1. Add the bar frequencies: ____.
2. Total data values: ____.

Answer: _____

3. A histogram has interval counts 4, 6, 3. How many data values are represented?

Complete each step, then write the final answer.

1. Add the bar frequencies: ____.
2. Total data values: ____.

Answer: _____