

Movie Marathon Madness Answer Key

Sorted Data - 85, 90, 94, 95, 98, 100, 102, 105, 110, 115, 118, 120, 125, 128, 130, 132, 137, 140, 145, 150

Calculations

Measure Result

Mean 115.95 minutes (≈ 116)

Median 116.5 minutes (≈ 117)

Mode None (all values appear only once)

Histogram Results - Time Range Groupings (minutes):

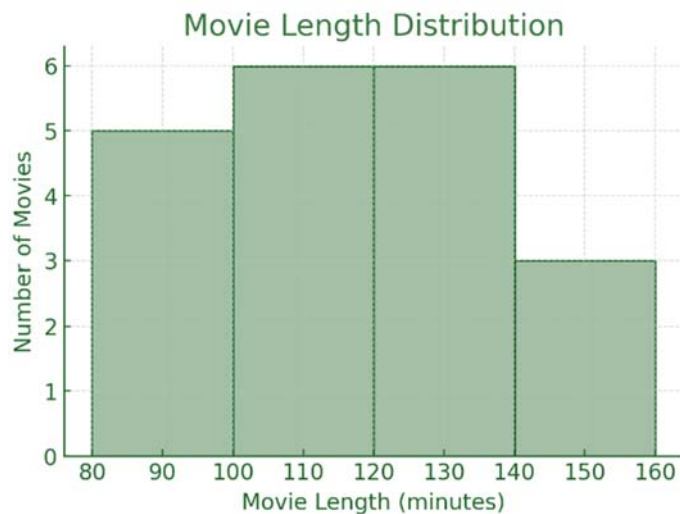
Range Count

80-99 5 movies

100-119 6 movies

120-139 6 movies

140-159 3 movies



Multiple-Choice Answers

1. Which time range had the most movies? **Answer:** 100-119 minutes
2. What is the mean movie length? **Answer:** 116 minutes (closest to 115)
3. What is the median movie length? **Answer:** 117 minutes (closest to 115-120 range)
4. Are most movies shorter than or longer than 120 minutes?
Answer: Shorter (11 out of 20 are under 120)
5. What kind of chart best shows how movies are grouped by length?
Answer: Histogram