

Chapter 3 Problem Wrap-Up

Student Text Page

159

Suggested Timing

30–40 min

Tools

- grid paper

Related Resources

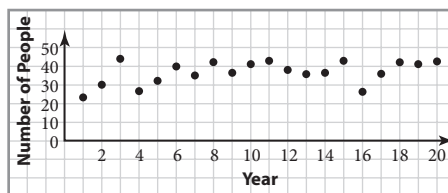
BLM 3-18 Chapter 3 Problem
Wrap-Up Rubric
BLM G-1 Grid Paper

Teaching Suggestions

- Distribute copies of **BLM G-1 Grid Paper**.
- Refer students to the Chapter Problem questions in sections 3.4 and 3.5 to find the data needed for the Chapter Problem Wrap-Up. Students can use their answers to these questions to help them. Have students write individual reports, and then compare their results in pairs.

Level 3 Sample Response

Attendance at Local Fair



I chose a bar graph to represent the data because it shows the trend in the data over the last 20 years. The attendance fluctuated from year to year. This may be due to weather, the location, the duration, or particular attractions at the fair from year to year.

The mean attendance was 37 000 and the median attendance was 38 000. Since there are some outliers and a fluctuation in the data, the median is the best measure of the attendance. The range, 21 000, shows that the data fluctuated. The standard deviation of 6008 also indicates that the data are somewhat spread out from the mean.

Level 3 Notes

Look for the following:

- appropriate explanations with minor errors
- understanding of appropriate types of graphs, and of data analysis
- understanding of problem-solving techniques
- organised solution and clear justification of responses
- effective use of mathematical language

What Distinguishes Level 2

Look for the following:

- some appropriate explanations with some significant errors
- some understanding of appropriate types of graphs, and of data analysis
- some understanding of problem-solving techniques, but difficulty in applying the techniques
- somewhat organised solution and some justification of responses
- somewhat effective use of mathematical language

What Distinguishes Level 4

Look for the following:

- appropriate and detailed explanations with very few or no errors
- thorough understanding of appropriate types of graphs, and of data analysis
- highly effective use of problem-solving techniques
- highly organised solution and clear, accurate, and detailed justification of responses
- highly effective use of mathematical language

Summative Assessment

- Use **BLM 3-18 Chapter 3 Problem Rubric** to assess student achievement.