Practice Test

Student Text Pages
358 to 359

Suggested Timing
60–75 min

Tools
- grid paper
- graphing calculator

Related Resources
- G–1 Grid Paper
- BLM 6–10 Chapter 6 Test

Summative Assessment
- You may wish to use **BLM 6–10 Chapter 6 Test** as a summative assessment.
- Question 12 could be used as a Performance Task.

Study Guide

Use the following study guide to direct students who have difficulty with specific questions to appropriate examples to review.

Question	Section(s)	Refer to
1	6.1	Investigate 2 (pages 314–315), Example 2 (page 316)
2	6.2	Example 2 (pages 324–325)
3	6.4	Example 1 (page 343)
4	6.3	Example 1 (page 343)
5	6.2, 6.4	Example 4 (pages 326–327), Example 1 (page 343)
6	6.3	Example 2 (pages 333–336), Example 3 (pages 336–337)
7	6.3	Investigate (pages 331–332)
8	6.4	Example 2 (page 344)
9	6.5	Example 1 (pages 349–350)
10	6.4	Example 2 (page 344), Example 4 (pages 345–346)
11	6.5	Example 2 (pages 351–352)
12	6.4	Example 1 (page 343)

Can students do each of the following?

- Identify the nature of the rate of change and key features of an exponential function
- Identify the shape of the graph and key features of the inverse of an exponential function
- Identify the logarithmic function as the inverse of a corresponding exponential function
- Write an exponential equation in logarithmic form and vice versa
- Estimate and evaluate a logarithm
- Apply transformations to logarithmic functions
- Apply the power law of logarithms
- Solve for an unknown exponent of an exponential equation by applying the power law of logarithms
- Apply the change of base formula to evaluate a logarithm having any base
- Apply the change of base formula to graph a logarithmic function having any base
- Understand the nature of a logarithmic scale
- Solve a variety of problems involving logarithmic scales used in the physical sciences