Chapter 5 Practice Test

Student Text Pages
270–271

Suggested Timing
80 min

Materials and Technology Tools
- graphing calculators
- grid paper

Related Resources
- BLM G–1 Grid Paper
- BLM 5–14 Chapter 5 Practice Test
- BLM 5–15 Chapter 5 Test
- BLM 5–16 Chapter 5 Practice Test Achievement Check Rubric

Summative Assessment

- **BLM 5-14 Chapter 5 Practice Test** provides a source for possible diagnostic assessment.
- After students complete **BLM 5–14 Chapter 5 Practice Test**, you may wish to use **BLM 5–15 Chapter 5 Test** as a summative assessment.

Accommodations

Gifted and Enrichment–have students make up problems similar to those in **questions 10 and 11** and challenge each other to solve them

Visual–provide students with enlarged copies of the graphs for **questions 1 and 9**

Language–encourage verbal responses for explanations or have a partner record answers

Using the Practice Test

Have copies of **BLM G–1 Grid Paper** available for students to use for **questions 7 and 8**. This practice test can be assigned as an in-class or take-home assignment. If it is used as an assessment, use the following guidelines to help you evaluate the students.
Can students do each of the following?
- describe key features of a periodic function, for example, cycle, period, amplitude
- sketch a graph of the basic sine function and label it properly
- sketch a graph of a transformed sine function, with transformations (vertical stretch, phase shift, vertical displacement) done singly
- identify the maximum and minimum values of a sine function
- identify the x-intercepts of a sine function
- model a sine function from data, with or without a graphing calculator
- make connections, using technology, with real-world periodic phenomena

- **Question 14** is an Achievement Check question. Provide students with **BLM 5–16 Chapter 5 Practice Test Achievement Check Rubric** to help them understand what is expected.

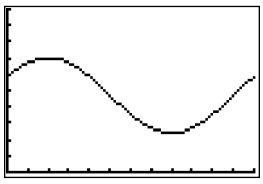
Study Guide

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

Question	Section	Refer to
1	5.1	Example 1 (page 233)
2	5.4	Example 1 (page 257)
3, 5	5.2	Example 3 (page 243)
4	5.2	Example 1 (page 241)
6	5.2	Example 2 (page 242)
7	5.3	Investigate B (page 249)
8	5.4	Example 1 (page 257)
9–11	5.4	Example 2 (page 259)
12–14	5.5	Example (page 265)

Achievement Check Sample Solution (page 271, question 14)

a)



b) 2.4 million people used public transit in August.

c) Ridership was at its highest level in the month (February).

d) Approximately 4 million people used public transit halfway through the fifth month (May) and halfway through the tenth month (October).

e) Since the lowest ridership is in the summer months, global warming might result in fewer people using public transit. However if the global warming is linked to traffic, then gasoline prices and car licensing might become prohibitively expensive and more people might use public transit.