Chapter 3 Practice Test

Student Text Pages

176–177

Suggested Timing 80 min

Materials and Technology Tools

• grid paper

Related Resources

- BLM G–1 Grid Paper
- BLM 3–12 Chapter 3 Practice Test
- BLM 3–13 Chapter 3 Test
- BLM 3–14 Chapter 3 Practice Test Achievement Check Rubric

Summative Assessment 🗢

- BLM 3-12 Chapter 3 Practice Test provides a source for possible diagnostic assessment.
- After students complete BLM 3–12 Chapter 3 Practice Test, you may wish to use BLM 3–13 Chapter 3 Test as a summative assessment.

Accommodations

Gifted and Enrichment-have students write problems similar to question 16 and challenge each other to solve them Spatial-allow students to use a graphing calculator to solve problems involving quadratic functions

Using the Practice Test

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?

- complete the square for quadratic equations with and without fractions
- use the quadratic formula to solve for *x*
- factor a quadratic expression
- solve a quadratic equation by factoring
- determine the key features (the vertex, the maximum or minimum, the equation of the axis of symmetry, the intercepts, and the range) of a quadratic function given its equation in standard form, vertex form, or factored form
- find the maximum height of a projectile, the time the projectile takes to hit the ground, and the time the projectile is higher than a set height
- determine the intervals for which a quadratic function is positive or negative, or increasing or decreasing
- determine an equation of a curve of best fit with and without technology
- Question 16 is an Achievement Check question. Provide students with BLM 3–14 Chapter 3 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(s)	Refer to
1	3.1	Example 2 (page 127–128)
2	3.3	Example 1 (page 146–147)
3	3.2	Example 1 (page 136–137)
4	3.4	Example 1 (page 154–156)
5	3.1	Example 1 (page 125–127)
6	3.3	Example 2 (page 148–149)
7	3.2	Example 3 (page 138–141)
8	3.4	Examples 1, 2 (pages 154–157)
9	3.4	Example 3 (page 158–159)
10	3.5	Example 1 (page 165–166)
11	3.1	Example 4 (page 130–131)
12	3.2	Example 3 (page 138–141)
13	3.1	Example 3 (page 129)
14, 16	3.4	Examples 1, 3 (pages 154, 158)
15	3.5	Example 2 (page 166–168)

