

5

Chapter 5 Practice Test

Mathematics 10, pages 254–255

Suggested Timing

45–60 min

Materials

- algebra tiles
- rulers

Blackline Masters

Master 5 Algebra Tiles (Positive Tiles)
 Master 6 Algebra Tiles (Negative Tiles)
 BLM 5–9 Chapter 5 Test

Planning Notes

Have students start the practice test by writing the question numbers in their notebook. Have them indicate which questions they need no help with, a little help with, and a lot of help with. Have students first complete the questions they know they can do, followed by the questions they know something about. Finally, suggest to students that they do their best on the remaining questions. Tell them that this test is for practice, and identifying which questions are most challenging serves to show them what concepts they need to revisit.

This practice test can be assigned as an in-class or take-home assignment. Provide students with the number of questions they can comfortably do in one class. These are the minimum questions that will meet the related curriculum outcomes: #1, 3–10, 12, and 13.

Study Guide

Question(s)	Section(s)	Refer to	The student can ...
#1, 6	5.1	Example 1	✓ multiply binomials
#6, 7	5.1	Example 3	✓ perform operations on products of polynomials
#5	5.2	Example 1	✓ determine greatest common factors and least common multiples
#9	5.2	Example 2	✓ factor a polynomial using common factors
#9	5.2	Example 3	✓ factor polynomials using grouping
#8	5.3	Example 1	✓ factor trinomials of the form $ax^2 + bx + c$, $a = 1$
#3, 8, 10	5.3	Example 2	✓ factor trinomials of the form $ax^2 + bx + c$, $a \neq 1$
#10	5.3	Example 3	✓ apply factoring to solve problems
#2, 4, 8, 11, 13	5.4	Example 1	✓ factor a difference of squares
#8, 12	5.4	Example 2	✓ factor a perfect square trinomial

Assessment	Supporting Learning
Assessment as Learning	
<p>Chapter 5 Self-Assessment Have students review their earlier responses in the What I Need to Work On section of their Foldable.</p>	<ul style="list-style-type: none"> • Make algebra tiles available to students, or provide them with Master 5 Algebra Tiles (Positive Tiles) and Master 6 Algebra Tiles (Negative Tiles). • Have students use their responses on the practice test and work they have completed earlier in the chapter to identify areas in which they may need to reinforce their understanding of skills or concepts. Before the chapter test, coach them in the areas in which they are having difficulties.
Assessment of Learning	
<p>Chapter 5 Test After students complete the practice test, you may wish to use BLM 5-9 Chapter 5 Test as a summative assessment.</p>	<ul style="list-style-type: none"> • Consider allowing students to use algebra tiles or area models. • Consider allowing students to use their Foldable.