

## Practice Assessment

*Practice* provides practice and allows you to self-reflect on your conceptual understanding of the *Lesson* skills. You will mark your work for *Practice* in each *Workbook* according to the following rubric.

Category	Strategy and Procedures	Response to Questions
	<i>I have...</i>	<i>I have...</i>
4	<ul style="list-style-type: none"> <li>used efficient and effective strategies to solve the problem(s)</li> </ul>	<ul style="list-style-type: none"> <li>provided detailed explanations and followed directions appropriately to complete all questions</li> </ul>
3	<ul style="list-style-type: none"> <li>used effective strategies to solve the problem(s)</li> </ul>	<ul style="list-style-type: none"> <li>provided clear explanations and followed directions adequately to complete most questions</li> </ul>
2	<ul style="list-style-type: none"> <li>used effective strategies inconsistently to solve the problem(s)</li> </ul>	<ul style="list-style-type: none"> <li>provided incomplete explanations and followed some directions to complete a few questions</li> </ul>
1	<ul style="list-style-type: none"> <li>used ineffective strategies to solve the problem(s)</li> </ul>	<ul style="list-style-type: none"> <li>provided incomplete explanations and does not followed directions to complete some questions</li> </ul>

Complete *Practice* exercises using your best work, showing all relevant steps needed to arrive at your solution. Refer to the *Module* to review lesson instructions. Contact your teacher for assistance or clarification as needed, or to investigate the topic further.

Check and correct your work using the solutions provided in *Appendix* in the *Module*.

*Practice* is worth 8 marks.

After you have assessed your work, reflect on your understanding of the concepts addressed in the *Practice* exercises in the table provided.

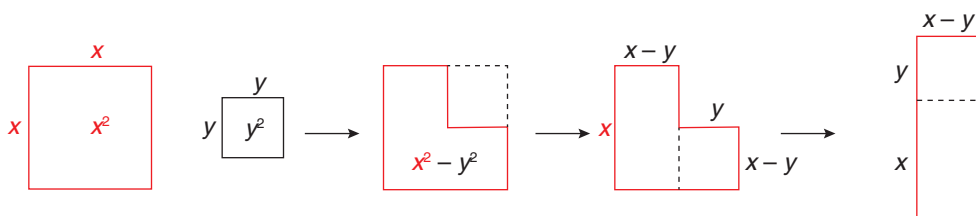
## Lesson 5.4: Other Factoring Strategies

Complete the *Practice* below. When you have completed all the questions for *Lesson 5.4 Practice – VI* with your best work, mark your work by first comparing your answers to the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.



### Practice – VI

1. This diagram was used in *Lesson 5.4* to help explain factoring a difference of squares.



- a. Explain the diagram.

---

---

---

---

---

---

---

---

---

---

- b. How does this diagram show that  $x^2 - y^2 = (x + y)(x - y)$ ?

---

---

---

---

---

2. Show that  $4p^2 - 9$  can be factored using each of the following methods.

a. algebra tiles

b. decomposition

c. a difference of squares

3. Factor each of the following expressions.

a.  $121 - p^2$

b.  $a^2 - b^2$

4. Factor each of the following expressions.

a.  $n^2 - 4n + 4$

b.  $4t^2 + 8t + 4$

5. Arnold said he can multiply some large numbers easily by factoring a difference of squares. He showed the following example.

$$\begin{aligned}(54)(46) &= (50 + 4)(50 - 4) \\ &= 50^2 - 4^2 \\ &= 2500 - 16 \\ &= 2484\end{aligned}$$

Comment on Arnold's procedure.

---

---

---

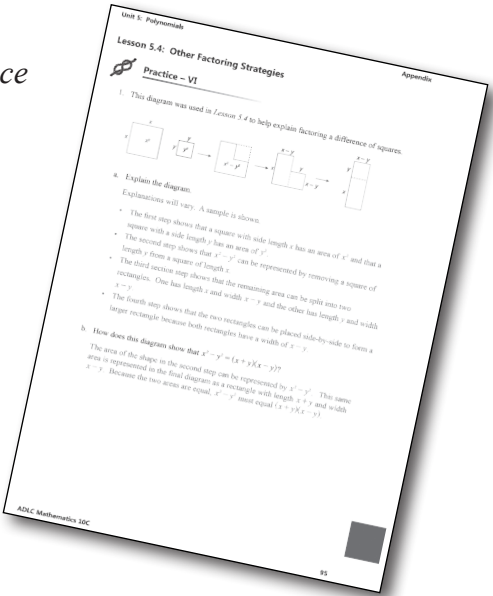
Mark your work for *Lesson 5.4 Practice – VI* using the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

Transfer your self-assessed mark to the front cover of the *Workbook*.

My self-assessed mark on *Lesson 5.4 Practice – VI* is \_\_\_\_\_.

Reflect on your understanding of the concepts addressed in the *Practice* exercises in the table provided.

Question Number	Got it!	Almost there...	Need to retry or ask for help.
1			
2			
3			
4			
5			



You may proceed to *Explore Your Understanding Assignment* on the next page of this *Workbook*.

**Note:** Before you complete *Explore Your Understanding*, you may review your skills and get more practice by completing the following problems in *Mathematics 10*.

- Page 246, #1, 4b, 4c, 5a, 5c, 5e, 6a, 6c, 6e, 8a, and 14

Check your work in *Enhance Your Understanding*.

