

## 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 effective strategies to solve the problem(s)</li> </ul>	<ul style="list-style-type: none"> <li>provided incomplete explanations and have 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; your mark can help you gauge your understanding of *Lesson* material.

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

## Lesson 1.1: Arithmetic Sequences

Complete the *Practice* below. When you have completed all the questions for *Lesson 1.1 Practice – I* 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 – I**

---

1. Identify the arithmetic sequence(s) below. For the arithmetic sequence(s), indicate the value of  $t_1$ ,  $d$ , and the simplified general term,  $t_n$ . For any sequence that is not arithmetic, explain why not.

a.  $a, a + w, a + 2w, a + 3w, \dots$

b.  $78, 75, 71, 66, 61, \dots$

2. Given  $t_1 = 652$  and  $d = -3$ , list the first four terms in the arithmetic sequence.

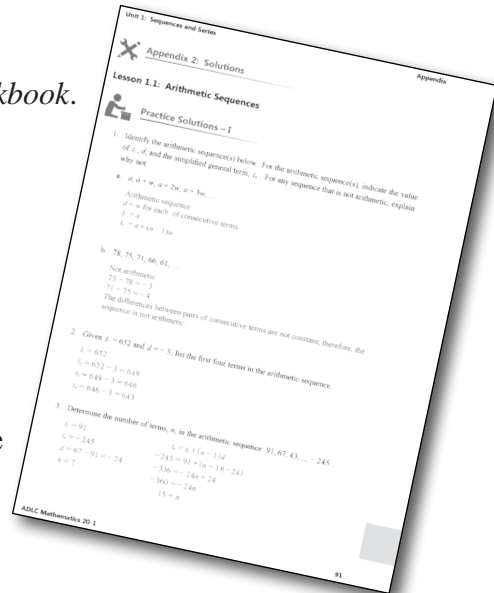
- Determine the number of terms,  $n$ , in the arithmetic sequence  $91, 67, 43, \dots, -245$ .
- Does an arithmetic sequence with  $t_1 = 24$  and  $d = 13$ , contain the term  $57$ ?
- The first three terms of an arithmetic sequence are  $5y + 3$ ,  $7y - 6$ , and  $6y$ . Determine the numerical values of the first three terms in the sequence, and then determine the value of  $d$ .

Mark your work for *Lesson 1.1 Practice – I* 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 1.1 Practice – I* 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.	Similar questions from <i>Pre-Calculus 11</i>
1				p.16 #1
2				p.16 #2ac
3				p.16 #5bd
4				p.17 #8
5				p.17 #10, 11

Please return to *Lesson 1.1* to continue your work in *Unit 1: Sequences and Series*.