

**ALBERTA DISTANCE LEARNING CENTRE**  
**Mathematics 10C**  
**MAT1791**  
**Workbook 2.2**

**Student's Questions  
and Comments**

**FOR STUDENT USE ONLY**

**Student Name:**

**FOR ADLC USE ONLY**

**Assigned to**

\_\_\_\_\_

**Marked by**

\_\_\_\_\_

**Date received**

\_\_\_\_\_

**Summary**

	Marks Earned	Total Possible Marks	Percent
2.2 Practice – III	<b>I have ____ /8 and ____ %.</b>		
Lesson 2.2 Assignment		14	

**Teacher's Comments:**

\_\_\_\_\_  
**Teacher's Signature**

## CANADIAN CATALOGUING IN PUBLICATION DATA

MAT1791  
Mathematics 10C  
ISBN: 978-1-927090-75-6  
Workbook 2.2

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Barrhead, Alberta Canada T7N 1P4

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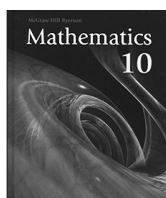
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## Practice Assessment

The *Practice* section provides practice exercise questions and allows you to self-reflect on your conceptual understanding of the *Lesson* skills. You will mark your *Practice* work 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 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.

After you have assessed your work, reflect on your understanding of the concepts in the table provided at the end of each *Practice* section.

## Lesson 2.2: Volume of 3-D Objects

Complete the *Practice* below. When you have completed all the questions for *Lesson 2.2 Practice – III* 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 – III

1. A right rectangular pyramid has base dimensions 10 ft by 4 ft, and a height of 15 ft. Determine its volume, to the nearest cubic foot.
2. A right rectangular prism with base dimensions 5.8 m by 3.1 m has a volume of  $187 \text{ m}^3$ . Determine the height of the prism, to the nearest tenth of a metre.

3. A cylindrical drum has a circumference of 47 inches and a height of 18 inches. What is the volume of the drum, to the nearest tenth of a cubic inch?

4. Explain why volume is measured in cubic units.

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5. A beach ball holds  $804 \text{ in}^3$  of air. Determine the diameter, to the nearest tenth, of the beach ball.

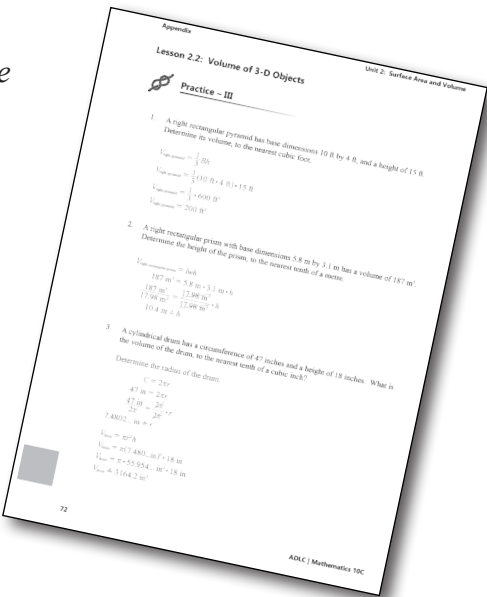
Mark your work for *Lesson 2.2 Practice – III* using the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

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

My self-assessed mark on *Lesson 3.2 Practice – III* 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			

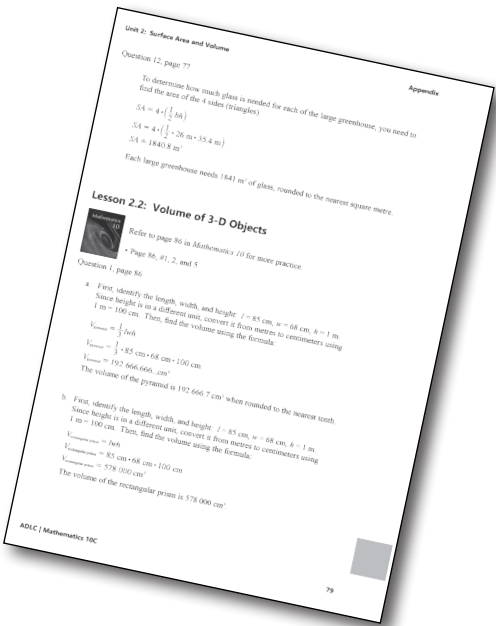


You may proceed to *Explore Your Understanding Assignment* on the next page of this *Workbook*.

**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 86, #1, 2, and 5

Check your work in *Enhance Your Understanding*.





- ④ b. A cylinder has a volume of  $5 \text{ m}^3$  and a radius of  $0.7 \text{ m}$ . What is the height of the cylinder, to the nearest hundredth of a metre?

- ③ 3. A microwave oven has a capacity of  $1.59 \text{ ft}^3$ . The interior of the microwave is  $14 \text{ in}$  wide and  $14 \text{ in}$  deep. What is the height of the interior of the microwave, to the nearest tenth of a foot?

**/14**