

ALBERTA DISTANCE LEARNING CENTRE
Mathematics 10C
MAT1791
Workbook 4.2

**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
4.2 Practice – II	I have ____ /8 and ____ %.		
Lesson 4.2 Assignment		15	

Teacher's Comments:

Teacher's Signature

CANADIAN CATALOGUING IN PUBLICATION DATA

MAT1791
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ISBN: 978-1-927090-75-6
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Mathematics 10
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Practice Assessment

The *Practice* section provides 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"> used efficient and effective strategies to solve the problem(s) 	<ul style="list-style-type: none"> provided detailed explanations and followed directions appropriately to complete all questions
3	<ul style="list-style-type: none"> used effective strategies to solve the problem(s) 	<ul style="list-style-type: none"> provided clear explanations and followed directions adequately to complete most questions
2	<ul style="list-style-type: none"> used effective strategies inconsistently to solve the problem(s) 	<ul style="list-style-type: none"> provided incomplete explanations and followed some directions to complete a few questions
1	<ul style="list-style-type: none"> used ineffective strategies to solve the problem(s) 	<ul style="list-style-type: none"> provided incomplete explanations and have not followed directions to complete some questions

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 4.2: Mixed and Entire Radicals

Complete the *Practice* below. When you have completed all the questions for *Lesson 4.2 Practice – II* 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 – II

1. Without the use of a calculator, evaluate $\sqrt{250\,000}$.

2. Evaluate the following.

a. $-\sqrt[3]{27}$

b. $\sqrt[3]{\frac{125}{512}}$

3. Simplify.

a. $\sqrt{72}$

b. $\sqrt[3]{24}$

4. Express each of the mixed radicals as an entire radical.

a. $5\sqrt{2}$

b. $2^3\sqrt{9}$

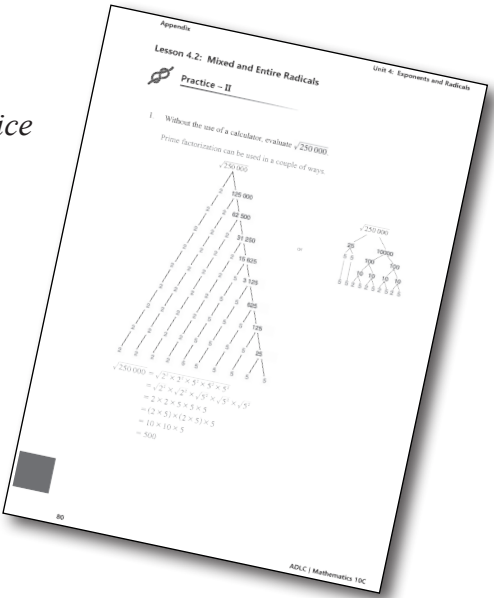
Mark your work for *Lesson 4.2 Practice – II* using the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

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

My self-assessed mark on *Lesson 4.2 Practice – II* 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			

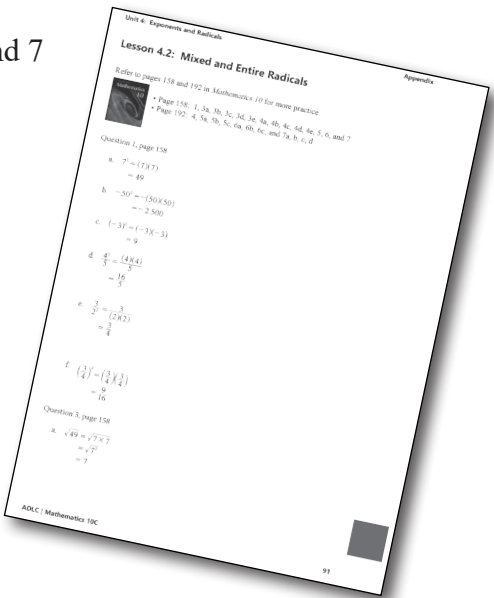


You may proceed to *Explore Your Understanding Assignment* on the next page of this *Workbook*.

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 158, #1, 3a, 3b, 3c, 3d, 3e, 4a, 4b, 4c, 4d, 4e, 5, 6, and 7
- Page 192, #4, 5a, 5b, 5c, 6a, 6b, 6c, 7a, 7b, and 7c

Check your work in *Enhance Your Understanding*.



Lesson 4.2: Mixed and Entire Radicals**Explore Your Understanding Assignment**

- ① 1. a. Which of the following numbers is both a perfect square and a perfect cube?
i. 12 544 ii. 531 441 iii. 456 235
- ② b. Show that the number of your choice is a perfect square and a perfect cube.

- ④ 2. Without using a calculator, determine whether 1 728 is a perfect square, a perfect cube, or neither.

② 3. Express $4 \cdot \sqrt[3]{\frac{2}{3}}$ as an entire radical.

③ 4. Without a calculator, simplify $\sqrt[3]{1024}$.

③ 5. A cube has a volume of 216 in^3 . Determine the area of one face of the cube.

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