ALBERTA DISTANCE LEARNING CENTRE Mathematics 10C

MAT1791

Workbook 2.3

Student Name: Assigned to Marked by Date received Summary	_		d to	Assistance		Student's Questions and Comments
Date received Summary Marks Earned Possible Marks 2.3 Practice – IV I have/8 and Lesson 2.3 Assignment 14				Assigned	Student Name:	
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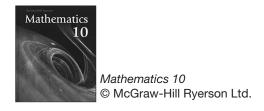
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Practice Assessment

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.

Catagory	Strategy and Procedures	Response to Questions	
Category	I have	I have	
4	• used efficient and effective strategies to solve the problem(s)	 provided detailed explanations and followed directions appropriately to complete all questions 	
3	• used effective strategies to solve the problem(s)	provided clear explanations and followed directions adequately to complete most questions	
2	• used effective strategies inconsistently to solve the problem(s)	• provided incomplete explanations and followed some directions to complete a few questions	
1	• used ineffective strategies to solve the problem(s)	• provided incomplete explanations and does 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 2.3: Composite Objects Applications

Complete the *Practice* below. When you have completed all the questions for *Lesson 2.3 Practice – IV* 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 - IV

1. a. A space dome theatre is composed of a cylindrical base and a hemispherical roof. Sketch the space dome theatre with a base radius of 40 m and a cylindrical height of 20 m.

b. What is the total volume of the space dome theatre?

Mark your work for Lesson 2.3 Practice – IV using the solutions provided in the Appendix. Then, apply the rubric found at the beginning of the Workbook.

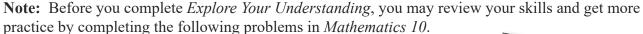
Transfer your self-assessed mark to the front cover of the Workbook.

My self-assessed mark on Lesson 2.3 Practice – IV is . .

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

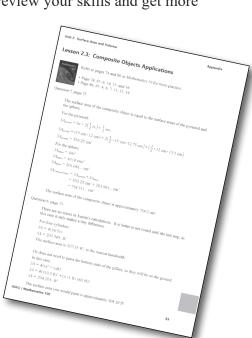
Question Number	Got it!	Almost there	Need to retry or ask for help.
1			

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



- Page 74, #5, 6, 14, 15, and 16
- Page 86, #3, 4, 6, 7, 11, 12, and 14

Check your work in Enhance Your Understanding.



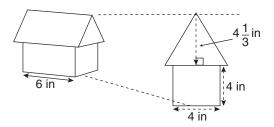
Lesson 2.3: Composite Objects Applications



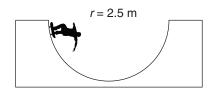
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Explore Your Understanding Assignment

1. Jimmy made a model of a house in construction class. The block of wood for the base measures 6 inches by 4 inches, and is 4 inches tall. He used a triangular prism for the roof, whose rectangular face hangs over the base by half an inch on all sides and is $4\frac{1}{3}$ inches in height. Calculate the total volume of wood used for the model.



2. Skateboarders use half pipes for doing tricks. A half-pipe is a half cylinder.



a. Explain in your own words how you could manipulate the surface area formula for a cylinder to calculate the curved surface area of the half pipe.

b. To the nearest square metre, what is the curved surface area of the half pipe if it is 7 m long?

- 3. Explain when each of the following formula adjustments might prove useful.
- a. Dividing the volume formula for a sphere by two.
- 2 b. Dividing the volume formula for a rectangular prism by three.