

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"> 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 addressed in the *Practice* exercises in the table provided.

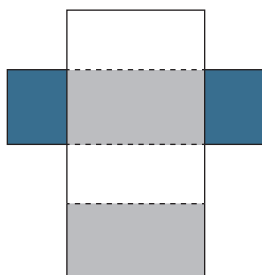
Lesson 2.1: Surface Area of 3-D Objects

Complete the *Practice* below. When you have completed all the questions for *Lesson 2.1 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*.

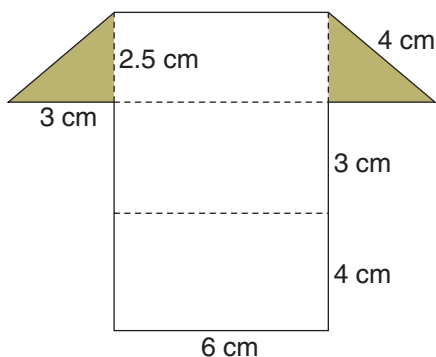


Practice – I


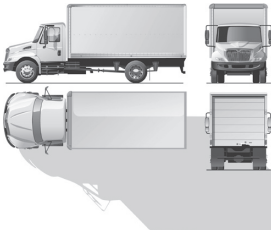
- Below is the net for a rectangular prism. Sketch another net that represents the same rectangular prism when folded along its dotted lines.



- Determine the surface area, to the nearest tenth, of the following triangular prism.



3. What is the difference in surface area, to the nearest square foot, between a 45 foot long semi-trailer (trailer only) and a 28 foot long cube van (storage compartment only)?

 all images © Thinkstock		Length	Width	Height	
	28 foot Cube Van	28 feet	102 inches	13 feet, 6 inches	
	45 foot Semi-Trailer	45 feet	102 inches	13 feet, 6 inches	

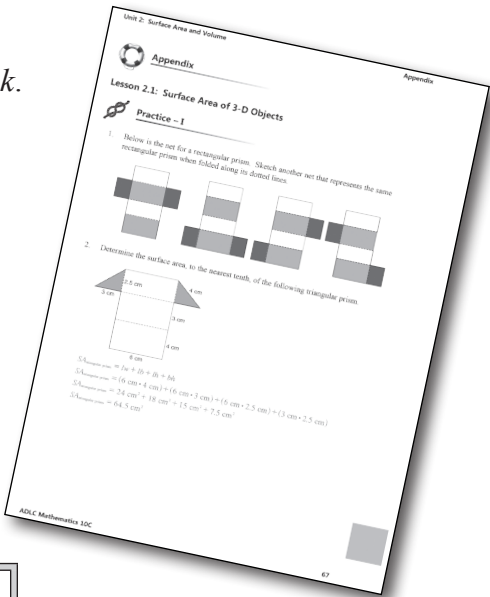
Mark your work for *Lesson 2.1 Practice – I* using the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

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

My self-assessed mark on *Lesson 2.1 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.
1			
2			
3			



Please return to *Lesson 2.1* to continue your work in *Unit 2: Surface Area and Volume*.

Lesson 2.1: Surface Area of 3-D Objects

Complete the *Practice* below. When you have completed all the questions for *Lesson 2.1 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*.



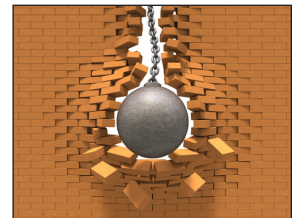
Practice – II

1. The soup can shown is a perfect storage container for a set of coloured pens, each 15 cm in length. The radius of the can's base is 4 cm. The surface area of the soup can is 406.8 cm^2 . Is the can tall enough to fit the pens with the lid on?



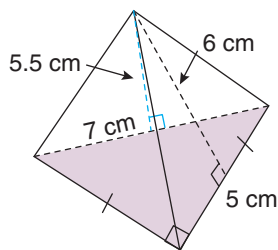
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2. A 4 000 pound wrecking ball has a surface area of $2\,642.01 \text{ in}^2$. Determine the diameter of the wrecking ball to the nearest foot.



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3. The following diagram is a tetrahedron. Sketch and label its net and determine its surface area, to the nearest hundredth.



4. An ice cream cone with a radius of 3.25 cm and a height of 15 cm has a scoop of ice cream sitting on it.
- a. If the visible portion of the ice cream scoop is a hemisphere, sketch and label a diagram using the measurements provided.

- b. Explain how you would determine the surface area of the ice cream cone and scoop.

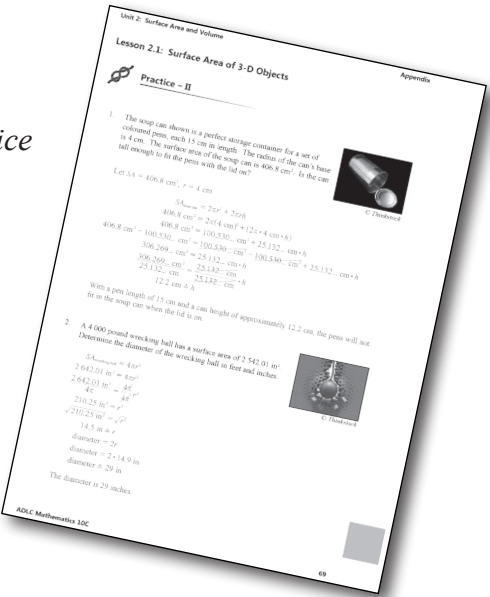
Mark your work for *Lesson 2.1 Practice – II* using the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

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

My self-assessed mark on *Lesson 2.1 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 74, #1, 3, 7, 11, and 12

Check your work in *Enhance Your Understanding*.

