

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*.



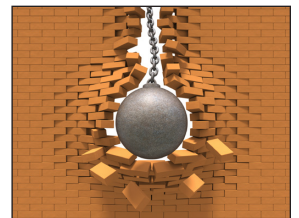
Practice – II

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?



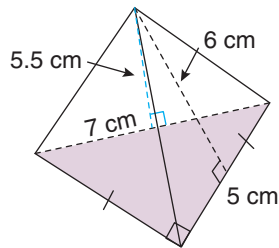
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2. A 4 000 pound wrecking ball has a surface area of $2\,642.01 \text{ in}^2$. Determine the diameter of the wrecking ball to the nearest inch.



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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.

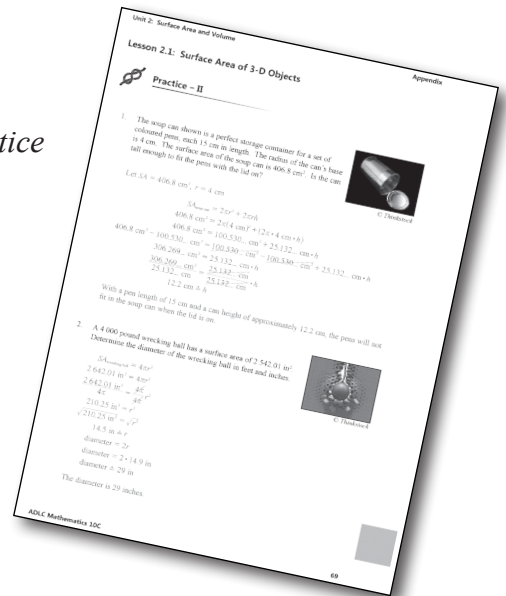
Mark your work for *Lesson 2.1 Practice – II* using the solutions provided in the *Appendix*. Then, apply the rubric found at the beginning of the *Workbook*.

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*.

