

Lesson Summary

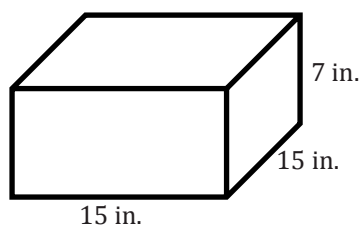
Surface Area Formula for a Rectangular Prism: $SA = 2lw + 2lh + 2wh$

Surface Area Formula for a Cube: $SA = 6s^2$

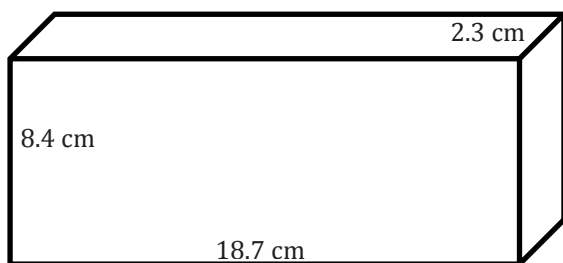
Problem Set

Calculate the surface area of each figure below. Figures are not drawn to scale.

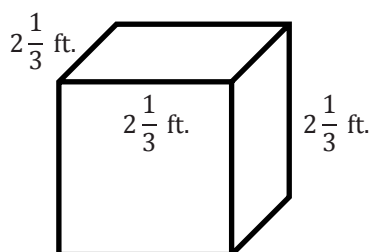
1.



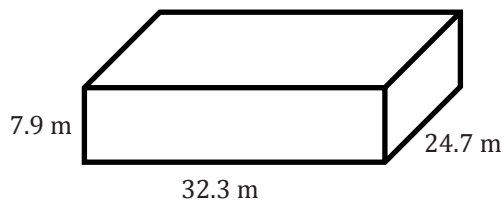
2.



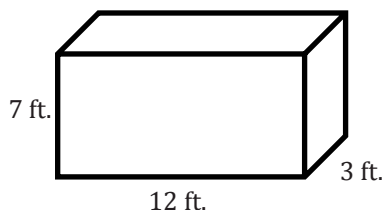
3.



4.



5. Write a numerical expression to show how to calculate the surface area of the rectangular prism. Explain each part of the expression.



6. When Louie was calculating the surface area for Problem 4, he identified the following:

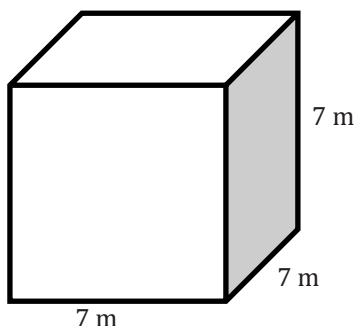
length = 24.7 m, width = 32.3 m, and height = 7.9 m.

However, when Rocko was calculating the surface area for the same problem, he identified the following:

length = 32.3 m, width = 24.7 m, and height = 7.9 m.

Would Louie and Rocko get the same answer? Why or why not?

7. Examine the figure below.



- What is the most specific name of the three-dimensional shape?
- Write two different expressions for the surface area.
- Explain how these two expressions are equivalent.