

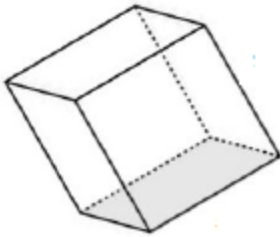
Name: _____

Class: _____

We have been working at surface area for a bit and now we are going to step it up and work backwards to find the lengths from the surface area.

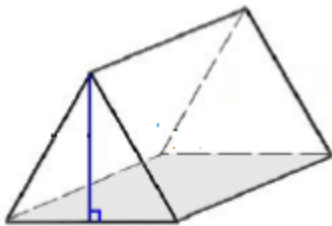
1.

The total surface area of this cube is 216 m^2 . What is the length, width and height dimensions?

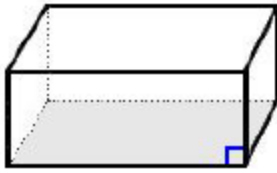


2.

This equilateral, right triangular prism has total surface area of 484.7 m^2 . We know that the triangular face has an area of 62.35 m^2 and a side length of 12 m. What is the depth of the prism?

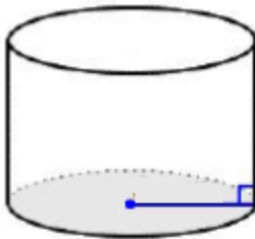


3.



The total surface area of this rectangular prism is 288 cm^2 . We know that the end face has an area of 24 cm^2 and one side that is 6 cm . What are the other two dimensions?

4.



This cylinder has a total surface area of 703.36 mm^2 . The area of the circular end is 153.86 mm^2 . What is the radius and the height of the cylinder?