



Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Student Exploration: Surface and Lateral Areas of Prisms and Cylinders

**Vocabulary:** cylinder, height (of a cylinder or prism), lateral area, net, prism, surface area

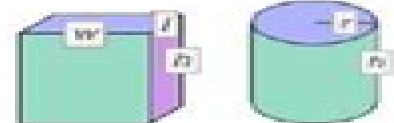
**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)



- Dustin is wrapping a present shaped like the one shown to the right. He has to find out how much wrapping paper he needs to cover all sides of the box.
  - Four sides are rectangles. Each rectangle has length 7 in. and width 4 in. Find the total area of these sides.  
 Area of one rectangle = \_\_\_\_\_ Total area = \_\_\_\_\_  
 \_\_\_\_\_
  - The top and bottom of the box are squares with sides of 4 in. Find the total area of the top and bottom.  
 Area of one square = \_\_\_\_\_ Total area = \_\_\_\_\_  
 \_\_\_\_\_
- How many square inches of wrapping paper does Dustin need? \_\_\_\_\_

### Gizmo Warm-up

Dustin's present is a **prism**. A prism is a 3-dimensional figure with two parallel, congruent polygonal bases and sides that are parallelograms. Prisms with one base directly above the other are *right prisms*. A **cylinder** is similar to a prism, but with circular bases. You will explore the areas of right prisms and cylinders in the *Surface and Lateral Areas of Prisms and Cylinders* Gizmo.



- In the Gizmo, be sure **Rectangle** is selected. Drag the point at the top right corner of the rectangle down to change ***l*** (length of base), and to the left to change ***w*** (width of base). How does the **3-D View** and the **Unfolded View (net)** of the prism change in each case?

Length: \_\_\_\_\_

Width: \_\_\_\_\_



# Answers For Student Exploration Gizmo Prisms And Cylinders

**Raffaela Di Napoli**



## **Answers For Student Exploration Gizmo Prisms And Cylinders:**

## Unveiling the Magic of Words: A Overview of "**Answers For Student Exploration Gizmo Prisms And Cylinders**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Answers For Student Exploration Gizmo Prisms And Cylinders**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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