

Chapter 4 Surface Area of Prisms

Worksheet A Guided Practice

Name: _____ Grade: _____ Date: _____

1. Surface Area or Volume?

Write surface area or volume.

a. wrapping a box: _____

b. filling a box with sand: _____

c. painting a cube: _____

d. finding space inside a prism: _____

2. Cube Surface Area

A cube has side length 4 cm.

One face area:

$$4^2 = \underline{\hspace{2cm}}$$

There are 6 faces:

$$SA = 6 \times \underline{\hspace{2cm}}$$

$$SA = \underline{\hspace{2cm}}$$

Surface area:

3. Rectangular Prism Surface Area

A rectangular prism is 5 cm long, 3 cm wide, and 2 cm high.

Top and bottom:

$$2(5 \times 3) = 2(15) = \underline{\hspace{2cm}}$$

Front and back:

$$2(5 \times 2) = 2(10) = \underline{\hspace{2cm}}$$

Left and right:

$$2(3 \times 2) = 2(6) = \underline{\hspace{2cm}}$$

Total:

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Surface area:

4. Unit Check

Circle the correct unit for surface area.

a. cm

b. cm^2

c. cm^3
