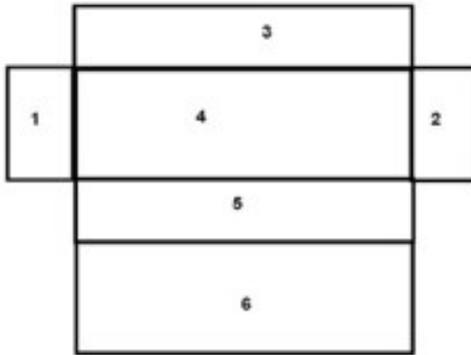


Name:

Date:

Class:

## Surface Area Worksheet



If a rectangular box is opened:

1,2 = base or ends

3,5 = sides

4 = bottom or floor

6 = top or ceiling

Shape	Lateral Surface Area (LSA)	Total Surface Area (TSA)
Cuboid	$2\text{height}(\text{length} + \text{base})$	$2(lb + bh + lh) = 2Bh + (\text{perimeter})(\text{height})$
Cube	$4a^2$	$6a^2$
Prism	Base perimeter $\times$ Height	LSA + 2 (area of one end)
Cylinder	$2\pi rh$	$2\pi r(r + h)$

1. Define the following terms:

a. lateral surface area

b. total surface area

c. two-dimensional (2D)

d. three-dimensional (3D)

Name:

Date:

Class:

**2. Draw the geometric shapes for the following objects:**

a. cuboid

b. cube

c. prism

d. cylinder

**Show the equation and solving of the following problems:**

3. The dimensions of a right rectangular prism are 4 inches by 5 inches by 6 inches. What is the surface area, in square inches, of the prism? (Convert to centimeters).
4. A cube has a surface area of 54 square meters. What is the volume, in cubic meters, of the cube? (Convert to centimeters).
5. A cubic prism has the dimensions of 4 inches by 4 inches and a height of 10 inches. What is the surface area? (Convert to centimeters).
6. Find the surface area of a right triangular prism with sides of 3 inches x 4 inches x 5 inches and a height of 12 inches. (Convert to centimeters).
7. What is the surface area of a cylinder with a radius of 3 inches and a height of 6 inches? (Convert to centimeters).