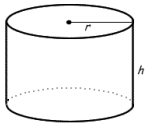
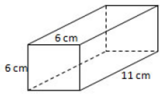
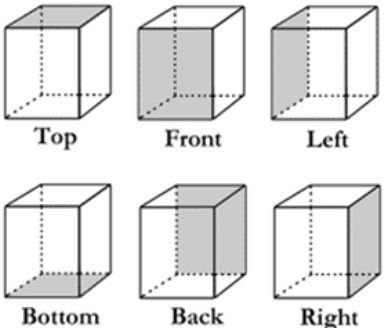
Surface Area





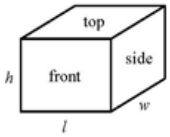
Jan 17-2:56 PM

Surface Area of a Rectangular Prism



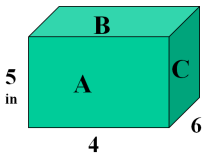
Jan 16-8:56 AM

$$SA_{prism} = 2A_{top} + 2A_{front} + 2A_{side}$$
$$= 2lw + 2lh + 2wh$$
$$= \_\_\_\_ + \_\_\_\_ + \_\_\_\_$$
$$= \_\_\_\_ \_\_\_\_^2$$
(units)



Jan 17-3:00 PM

Rectangular Prism



How many faces are on here?

Find the area of each of the faces.

A = 5 x 4 = 20 x 2 =40

B = 6 x 5 = 30 x 2 = 60

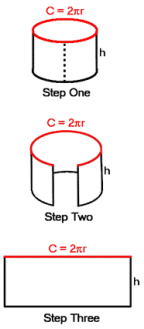
C = 4 x 6 = 24 x 2 = 48

148 in^2

Jan 17-10:01 AM

Surface Area of a Cylinder

Lateral Area of a Cylinder



Jan 17-3:32 PM

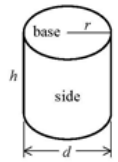
Surface Area

$SA_{cylinder} = 2A_{base} + A_{side}$

$= 2\pi r^2 + \pi dh$

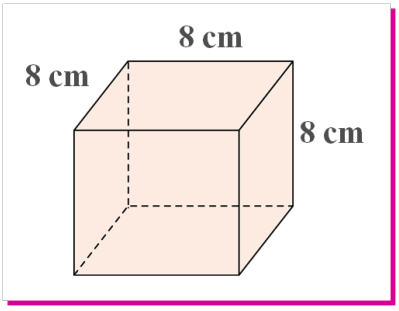
$= \_\_\_\_ + \_\_\_\_$

$= \_\_\_\_\_ \quad \_\_\_\_\_^2$ (units)



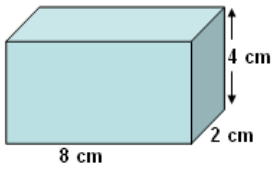
Jan 17-3:00 PM

Example: Determine the surface area.



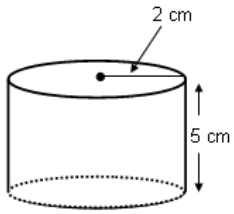
Jan 17-10:08 AM

Example: Determine the surface area.



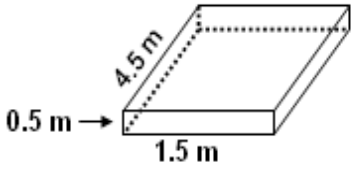
Jan 17-2:59 PM

Example: Determine the surface area.



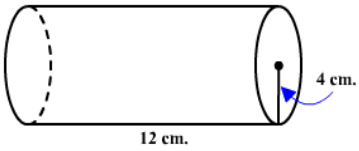
Jan 17-3:06 PM

Example: Determine the surface area.



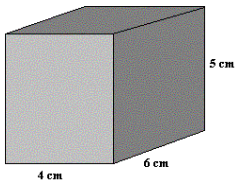
Jan 17-3:06 PM

Example: Determine the surface area.



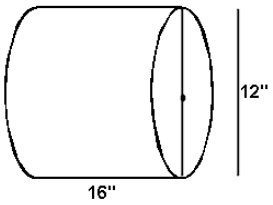
Jan 17-3:07 PM

Example: Determine the surface area.



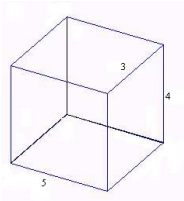
Jan 17-3:07 PM

Example: Determine the surface area.



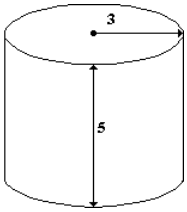
Jan 17-3:07 PM

Example: Determine the surface area.



Jan 17-2:57 PM

Example: Determine the surface area.

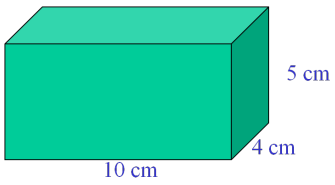


Jan 17-3:08 PM

In general, the surface area is the sum of all the areas of all the shapes that cover the surface of the object.

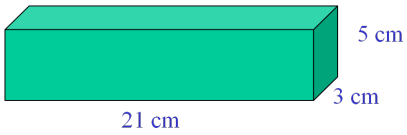
Jan 16-8:54 AM

Example: Determine the surface area.



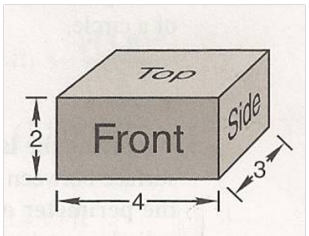
Jan 17-10:03 AM

Example: Determine the surface area.



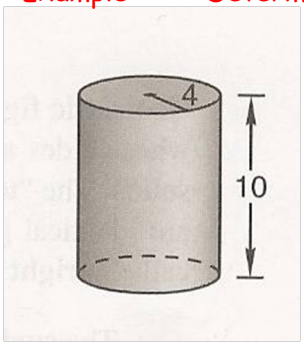
Jan 17-10:03 AM

Example: Determine the surface area.



Jan 17-10:07 AM

Example: Determine the surface area.



Jan 17-10:07 AM

Mr. Bill wants to paint a rectangular toy box for his son. It has a width of 2 feet, length of 6 feet, and a height of 2 feet. If one can of paint will cover 20 square feet, then how many cans of paint will it take to paint the toy box?

Jan 17-3:16 PM

Mrs. Schroeder is going to wallpaper a room in her house. The room is 10 feet wide, 12 feet long, and 8 feet high. There are **two** doors in the room that are 4 feet by 6 feet, and **one** window that is 5 feet by 3 feet. The wall paper she is using covers 46 square feet and cost $9.65 a roll. How many rolls will she need for the room and how much will it cost her?

Jan 17-3:16 PM

A cylindrical poster tube is 56 inches tall and 8 inches in diameter. What is its surface area in square inches?

Jan 17-3:17 PM

You have been hired to paint the exterior of a storage bin. If the bin is a rectangular prism that measures 2.3 m by 4.4 m by 2.8 m, what is the surface area of the bin?

Jan 17-3:19 PM

A metal cylinder canister is 1'3" long and has a diameter of 4". What is the total surface area of the cylinder?

Jan 17-3:20 PM