Name: KEY

Surface Area and Volume Activity

Station 1:

Base Area: TT. 22 =

Clorox Wipes (Cylinder)

125. 6 in = SA

Station 2:

Dimensions: Gin x 8 in x 10 in

Cardboard box (Rectangular Prism)

Find the volume and surface area.

Station 3:

Taped Binder (Triangular Prism)



6x10 = 60 8x10 = 80

base area h=12 = 24 in2

Find the volume and surface area.

Station 4:

A rectangular prism has the following dimensions:

Find the volume and surface area.

Station 5:

Part 1)

A square-based prism has a height of 22 inches. What is the length of each side of the prism's square base if the volume is 4,312 cubic inches?

$$4312 = x^{2} \cdot 22$$
 $196 = x^{3}$
 $(x = 14 \text{ in})$

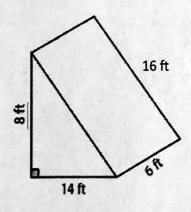
Part 2)

A cylinder has a height of 19 cm. If the volume of the cylinder is 2,923.34 cubic centimeters, what is the radius of the cylinder's base?

$$2923.34 = \pi \cdot r^{2}.19$$
 $153.80 = \pi \cdot r^{2}$
 $49 = r^{2}$

Station 6:

Find the volume and surface area.



$$\frac{1}{2}(14)(8) = 56$$

$$56.6 = 336 + 3 = 7$$

$$10.0 = 90$$
 $14.0 = 84$
 $8.6 = 48$
 $+50$
 $+50$
 $340 + 2 = 5A$