## SURFACE AREA OF CYLINDERS

Name: $\qquad$ Class: $\qquad$ Due Date: $\qquad$
Family Member Signature: $\qquad$

## Objective:

To practice finding the surface area of cylinders.

## Necessary Information:

In order to find the surface area of a cylinder students must calculate the area of the top and bottom circle base and the curved, lateral face.
$A=\pi r^{2}$

Surface Area = 2 lids + lateral face

Calculators are encouraged.

## Practice Section:

1. For each of the following, draw either the net or the 3D object (whichever is missing) with measurements labeled. Then, calculate the surface area.
a)


$$
\begin{aligned}
& \mathrm{d}_{\text {lid }}= \\
& \mathrm{r}_{\text {lid }}= \\
& \mathrm{A}_{\text {bottomlid }}= \\
& \hline
\end{aligned}
$$

$$
\mathrm{h}_{\text {cylinder }}=
$$

$\mathrm{C}_{\text {lid }}=$ $\qquad$

$$
\mathrm{A}_{\text {lateralsurface }}=
$$

$\qquad$
$\mathrm{A}_{\text {toplid }}=$ $\qquad$
$\qquad$
b)

$\mathrm{d}_{\text {lid }}=$ $\qquad$
$\qquad$
$\mathrm{h}_{\text {cylinder }}=$
$\mathrm{r}_{\text {lid }}=$ $\qquad$ $\mathrm{C}_{\text {lid }}=$ $\qquad$
$\mathrm{A}_{\text {bottomlid }}=$ $\qquad$
$\mathrm{A}_{\text {toplid }}=$ $\qquad$
$\mathrm{Al}_{\text {lateralsurface }}=$ $\qquad$
Surface Area = $\qquad$

## In Your Real World:

With a family member, calculate the surface area of the Pringles can. Now, use your estimation skills to guess how many Pringles this can would hold.

$\qquad$
$\mathrm{r}_{\text {lid }}=$ $\qquad$
$\mathrm{A}_{\text {bottomlid }}=$ $\qquad$
$\mathrm{A}_{\text {toplid }}=$ $\qquad$
$\mathrm{h}_{\text {cylinder }}=$
$\mathrm{C}_{\text {lid }}=$ $\qquad$
$\mathrm{A}_{\text {lateralsurface }}=$ $\qquad$

Surface Area = $\qquad$

Number of Pringles in can: $\qquad$

