

## SURFACE AREA OF CYLINDERS

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Due Date: \_\_\_\_\_

Family Member Signature: \_\_\_\_\_

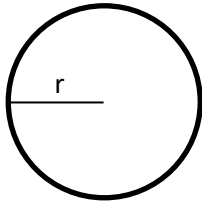
### Objective:

To practice finding the surface area of cylinders.

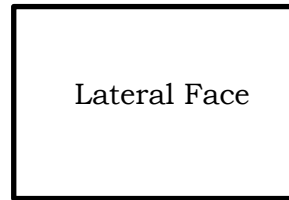
### Necessary Information:

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.

$$A = \pi r^2$$



$$A = bh$$



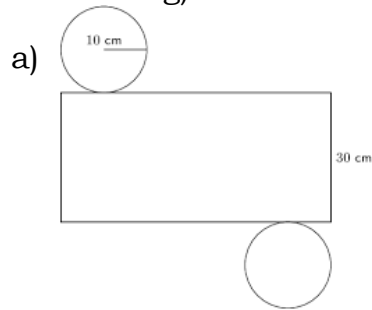
$$h = C = \pi d$$

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.



$$d_{\text{lid}} = \underline{\hspace{2cm}}$$

$$h_{\text{cylinder}} = \underline{\hspace{2cm}}$$

$$r_{\text{lid}} = \underline{\hspace{2cm}}$$

$$C_{\text{lid}} = \underline{\hspace{2cm}}$$

$$A_{\text{bottomlid}} = \underline{\hspace{2cm}}$$

$$A_{\text{lateral surface}} = \underline{\hspace{2cm}}$$

$$A_{\text{toplid}} = \underline{\hspace{2cm}}$$

$$\text{Surface Area} = \underline{\hspace{2cm}}$$

