## **TOPIC 13-4: SURFACE AREA AND VOLUME OF CYLINDERS**

The figure below is a net for a right cylinder:



Recall that LATERAL AREA measures the area of everything

EXCEPT \_\_\_\_\_\_\_



TOTAL AREA INCLUDES \_\_\_\_\_\_

VOLUME measures the number of \_\_\_\_\_\_ units in the

\_\_\_\_\_ of a 3-dimensional object.

Since the base of a cylinder is a \_\_\_\_\_, B = \_\_\_\_\_.





- LA = \_\_\_\_\_
- TA = \_\_\_\_\_
- V = \_\_\_\_\_

EXAMPLE 2 For the cylinder below, find Lateral Area, Total Area, and Volume. Round your answers to the nearest tenth.



- LA = \_\_\_\_\_
- TA = \_\_\_\_\_
- V = \_\_\_\_\_



TA = \_\_\_\_\_

EXAMPLE 5 The Volume of a cylinder is  $81\pi$  in<sup>3</sup>. If the radius is 3 in, find the height.

h = \_\_\_\_\_