

**PRACTICE WORKSHEET****Lesson 11-5**

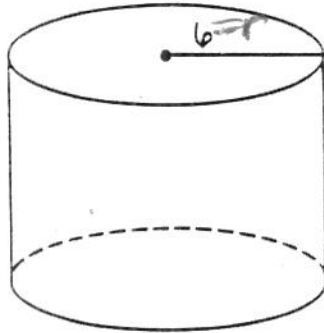
$$LA = 2\pi rh$$

$$SA = LA + 2\pi r^2$$

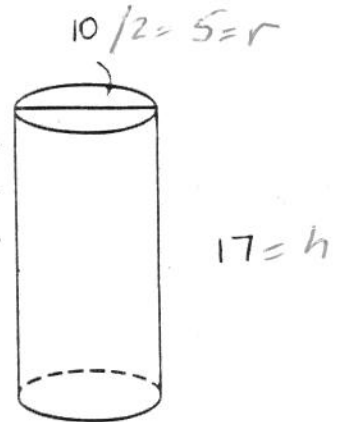
$$V = \pi r^2 h$$

Find the lateral area, the surface area, and the volume of each right cylinder.

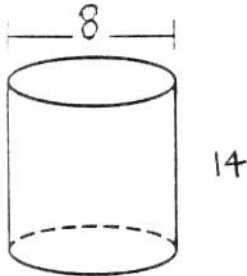
1.  $LA =$  \_\_\_\_\_  
 $SA =$  \_\_\_\_\_  
 $V =$  \_\_\_\_\_



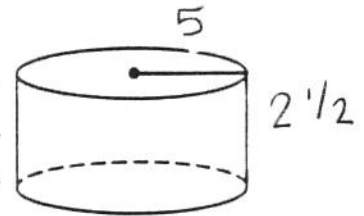
2.  $LA =$  \_\_\_\_\_  
 $SA =$  \_\_\_\_\_  
 $V =$  \_\_\_\_\_



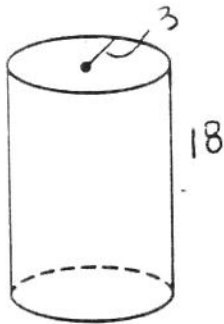
3.  $LA =$  \_\_\_\_\_  
 $SA =$  \_\_\_\_\_  
 $V =$  \_\_\_\_\_



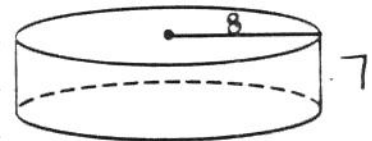
4.  $LA =$  \_\_\_\_\_  
 $SA =$  \_\_\_\_\_  
 $V =$  \_\_\_\_\_



5.  $LA =$  \_\_\_\_\_  
 $SA =$  \_\_\_\_\_  
 $V =$  \_\_\_\_\_



6.  $LA =$  \_\_\_\_\_  
 $SA =$  \_\_\_\_\_  
 $V =$  \_\_\_\_\_



7. Find the surface area of a right cylinder whose diameter is 10 cm and whose altitude is 20 cm.  $h = 20$   $r = 5$

$$SA = 2\pi(5)(20) + 2\pi(5)^2$$

8. Find the volume of a cylinder whose diameter is 5 cm and whose height is 8 cm.
9. Draw a net for a cylinder.

10. Find the Lateral Area, Surface Area, and Volume of a Cylinder with diameter 4 and height 8.
11. Find the Lateral Area, Surface Area, and Volume of a cylinder with diameter 7 and height 11.
12. A standard drinking straw is 19.5 cm long and has a diameter of 0.6 cm. How many square centimeters of plastic are used in one straw?

$$LA =$$

13. Find the radius of a cylinder whose height is 8 and lateral area is 301.59.

$$LA = 301.59 = 2\pi r(8)$$

$$\frac{301.59}{16\pi} = \frac{16\pi r}{16\pi}$$

$$r =$$

14. Find the height of a cylinder whose radius is 12 and volume is 2261.95.

15. Find the volume of a cylinder whose height is 14 and lateral area is 1583.36