

Name (KE

Date

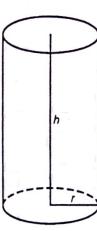
Practice: For use after Lesson 12.3, Geometry

L=2mrh T=2mrh+2mr2 V= nr2h

Cylinders

Complete the table for a right circular cylinder.

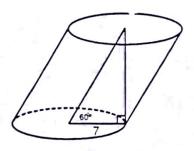
	Units		Square Units		Cubic Units
	h	r	L	T	<u>v</u> –
1.	8	5	80m	1307	2007
2.	4	8	647	1927	256 T
3.	1	12	168π	45617	1008π
4.	10	6	120π	1927	360T
5.	9	4	72π	1047	144π



Find the volume of each oblique cylinder.

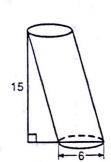


6.



343 \ 37

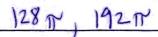
7.



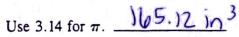
35 TT

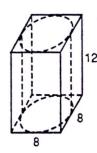
This cylinder is inscribed in a rectangular solid of dimensions l=8 in., w=8 in., and h=12 in.

8. Find the total area and volume of the cylinder.



9. Find the volume of the region between the cylinder and the prism.





Application

10. Water management This cylindrical tank has 15' of water in it. To the nearest whole percent, how much of the tank is filled?



