Volume of Cylinders,	
Volume of Cylinders, Cones and Spheres	Notes.

Name:_____

Directions: Calculate the volume of the cylinder, cone and sphere for the problems listed below. Label all of your answers with the appropriate units and show your work! Use 3.14 for π . Round your answers to the nearest tenth.

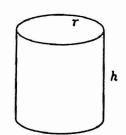
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VOLUM PRACTI	11	Cylinder V = πr²h	Cone $V = \frac{1}{3}\pi r^2 h$	Sphere $V = \frac{4}{3} \pi r^3$	
1) radius = 2 height = 4	feet feet	$V = 3.14 \times 2^{2} \times 4$	V=3×3.14×2×4	V=3×3.14×23	
,		V= 50.24ft	V=16.75H3	V=33.49ft ³	
2) radius = 4 : height = 8 :	feet feet	V=3.14×4°x8	V= = 3.14×4°×8	V=3×3.14×43	
-		V=401.92 ft ³	V=133.97 ft3	V=267.95ft ³	
3) radius = 6 t height = 12 t	feet feet	1=3.14×6°×12	V==3×3.14×62×12	V=号13.14×63	
	1	V=1356.48ft ³	V= 452.16ft	V=904.32ft ³	
4) diameter= neight = 4	10 in	r=5) 1=3.14×5²×4	V===3×3.14×52×4	V= \$13.14×53	
r=d+2		V=314 in ³	V=104.67in3	V=523.33 in	



Name____

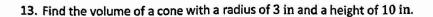
Answer the following questions either using $\pi \approx 3.14\,$ or giving your answer in terms of π . Round your answer to the nearest hundredth where necessary.

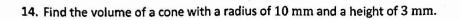
1. Find the volume of a cylinder with a radius of 3 in and a height of 10 in.



- 2. Find the volume of a cylinder with a radius of 10 mm and a height of 2 mm.
- 3. Find the volume of a cylinder with a radius of 5 cm and a height of 15 cm.
- 4. Find the volume of a cylinder with a diameter of 22 m and a height of 5 m.
- 5. Find the volume of a cylinder with a diameter of 4 ft and a height of 1 ft.
- 6. Find the volume of a cylinder with a radius of 9 in and a height of 9 in.
- 7. Find the volume of a can of green beans with a radius of 3 cm and a height of 8 cm.
- 8. Find the volume of a cylindrical can of oatmeal with a radius of 8 cm and a height of 45 cm.
- 9. Find the volume of a cylindrical water bottle with a diameter of 4 cm and a height of 30 cm.
- 10. Find the volume of a can of Pepsi with a diameter of 2 in and a height of 3.5 in.
- 11. Find the volume of a water pipe with a radius of 0.75 ft and a length of 16 ft.
- 12. Find the volume of a straw used for drinking with a radius of 2 mm and a height of 170 mm.







15. Find the volume of a cone with a radius of 5 cm and a height of 15 cm.

16. Find the volume of a cone with a radius of 12 m and a height of 5 m.

17. Find the volume of a cone with a diameter of 4 ft and a height of 9 ft.

18. Find the volume of a cone with a diameter of 18 in and a height of 9 in.

19. Find the volume of a waffle cone for ice cream with a radius of 4 cm and a height of 12 cm.

20. Find the volume of a cone birthday hat with a radius of 2 in and a height of 9 in.

21. Find the volume of a funnel with a diameter of 10 cm and a height of 9 cm.

22. Find the volume of a sphere with a diameter of 6 in.

23. Find the volume of a sphere with a diameter of 18 mm.

24. Find the volume of a sphere with a radius of 6 cm.

25. Find the volume of a sphere with a radius of 12 m.

26. Find the volume of a sphere with a radius of 2 ft.

27. Find the volume of a sphere with a radius of 5 in.

28. Find the volume of a mini basketball with a radius of 3.5 in.

29. Find the volume of the Earth with a diameter of approximately 12, 756 km.

30. Find the volume of the moon with a diameter of approximately 3475 km.

31. Find the volume of a gumball with a radius of 3 mm.