

Volume of Cylinders, Cones and Spheres *fluency*



Find the volume of the cylinder to 1 decimal place. r is the radius, h the height.

1 $r = 3 \text{ cm}, h = 10 \text{ cm}$

2 $r = 5 \text{ cm}, h = 4 \text{ cm}$

3 $r = 2 \text{ cm}, h = 15 \text{ cm}$

4 $r = 6 \text{ cm}, h = 7 \text{ cm}$

5 $r = 1.5 \text{ cm}, h = 8 \text{ cm}$

6 $r = 10 \text{ cm}, h = 2.5 \text{ cm}$



Find the volume of the cone to 1 decimal place

7 $r = 3 \text{ cm}, h = 10 \text{ cm}$

8 $r = 4 \text{ cm}, h = 9 \text{ cm}$

9 $r = 6 \text{ cm}, h = 8 \text{ cm}$

10 $r = 2 \text{ cm}, h = 7 \text{ cm}$

11 $r = 5 \text{ cm}, h = 9 \text{ cm}$

12 $r = 2.5 \text{ cm}, h = 6 \text{ cm}$



Find the volume of the sphere to 1 decimal place

13 $r = 3 \text{ cm}$

14 $r = 5 \text{ cm}$

15 $r = 2 \text{ cm}$

16 $r = 10 \text{ cm}$

17 $r = 4 \text{ cm}$

18 $r = 7 \text{ cm}$



Find the volume of the hemisphere to 1 decimal place

19 $r = 3.5 \text{ cm}$

20 $r = 6 \text{ cm}$

21 $r = 4 \text{ cm}$

22 $r = 9 \text{ cm}$

23 $r = 2.5 \text{ cm}$

24 $r = 12 \text{ cm}$



Give the volume in terms of π

25 cylinder, $r = 2 \text{ cm}, h = 5 \text{ cm}$

26 cone, $r = 3 \text{ cm}, h = 4 \text{ cm}$

27 sphere, $r = 3 \text{ cm}$

28 hemisphere, $r = 6 \text{ cm}$

29 cylinder, $r = 4 \text{ cm}, h = 0.5 \text{ cm}$

30 cone, $r = 6 \text{ cm}, h = 10 \text{ cm}$