

1. The volume of a solid could be measured in:

A. cm

B. cm^2

C. cm^3

D. cm^4

2. The volume of a rectangular prism with base dimensions of 3 cm and 8 cm and a prism height of 12 cm is:

A. 132 cm^3

B. 144 cm^3

C. 288 cm^3

D. 576 cm^3

3. The volume of a triangular prism with base dimensions of 4 cm height and 10 cm base and a prism height of 15 cm is:

A. 150 cm^3

B. 300 cm^3

C. 600 cm^3

D. 900 cm^3

4. The volume of a trapezoidal prism with base dimensions of $b_1 = 4 \text{ cm}$, $b_2 = 10 \text{ cm}$ and a height of 6 cm and a prism height of 10 cm is:

A. 420 cm^3

B. 840 cm^3

C. 1200 cm^3

D. 2400 cm^3

5. The volume of a cylinder with a diameter of 6 cm and height of 12 cm is:

A. 108 cm^3

B. $72\pi \text{ cm}^3$

C. $108\pi \text{ cm}^3$

D. 432 cm^3

6. The volume of a cylinder is $24\pi \text{ cm}^3$ with a height of 4 cm, the radius is:

A. 3 cm

B. $\sqrt{6} \text{ cm}$

C. 6 cm

D. 8 cm^3

7. The volume of a cylinder is 27π where the height = the radius. What is the radius?

A. 1.5 cm

B. 2 cm

C. 3 cm

D. 4 cm

8. The volume of a square pyramid with a base edge of 4 cm and a pyramid height of 9 cm is:

A. 144 cm^3

B. 72 cm^3

C. 48 cm^3

D. 36 cm^3

9. The volume of a square pyramid with a base edge of 10 cm and a lateral face slant height of 13 cm is:

A. 400 cm^3

B. $433\frac{1}{3} \text{ cm}^3$

C. 1200 cm^3

D. 1300 cm^3

10. The volume of a regular hexagonal pyramid with a base edge of 4 cm and a pyramid height of 8 cm is:

A. $256\sqrt{3} \text{ cm}^3$

B. $192\sqrt{3} \text{ cm}^3$

C. $128\sqrt{3} \text{ cm}^3$

D. $64\sqrt{3} \text{ cm}^3$

11. The volume of a cone with a radius of 6 cm and a height of 10 cm is:

A. $30\pi \text{ cm}^3$

B. $40\pi \text{ cm}^3$

C. $120\pi \text{ cm}^3$

D. $360\pi \text{ cm}^3$

12. The volume of a cone with a radius of 6 cm and a slant height of 10 cm is:

A. $360\pi \text{ cm}^3$

B. $288\pi \text{ cm}^3$

C. $120\pi \text{ cm}^3$

D. $96\pi \text{ cm}^3$

13. The volume of a sphere with a radius of 3 cm is:

A. $9\pi \text{ cm}^3$

B. $12\pi \text{ cm}^3$

C. $36\pi \text{ cm}^3$

D. $72\pi \text{ cm}^3$

14. The volume of a sphere with a diameter of 12 cm is:

A. $2304\pi \text{ cm}^3$

B. $288\pi \text{ cm}^3$

C. $144\pi \text{ cm}^3$

D. $72\pi \text{ cm}^3$

15. If the surface area ($SA = 4\pi r^2$) of a sphere is 36π , then volume of a sphere is:

A. $27\pi \text{ cm}^3$

B. $108\pi \text{ cm}^3$

C. $243\pi \text{ cm}^3$

D. $36\pi \text{ cm}^3$