

***Use Formula Sheet
Provided!**

Name _____

Date _____

Volume Quiz

1.) What is the radius of a cylinder with a diameter of 28 in.?

- A. 14 in.
- B. 18 in.
- C. 46 in.
- D. 56 in.

2.) What is the radius of a cone with a diameter of 58 cm?

- A. 24 cm
- B. 29 cm
- C. 116 cm
- D. 124 cm

3.) What is the radius of a sphere with a diameter of 21 mm?

- A. 10.5 mm
- B. 12.5 mm
- C. 41 mm
- D. 42 mm

4.) What is the radius of a cylinder with a diameter of 9 in.?

- A. 3 in.
- B. 4.3 in.
- C. 4.5 in.
- D. 18 in.

5.) What is the radius of a cone with a diameter of 15 ft?

- A. 5 ft
- B. 7.5 ft
- C. 30 ft
- D. 45 ft

6.) What is the diameter of a cylinder with a radius of 8 cm?

- A. 2 cm
- B. 4 cm
- C. 12 cm
- D. 16 cm

7.) What is the diameter of a cone with a radius of 24 in.?

- A. 12 in.
- B. 48 in.
- C. 52 in.
- D. 72 in.

8.) What is the diameter of a sphere with a radius of 3.5 ft?

- A. 1.75 ft
- B. 6 ft
- C. 7 ft
- D. 8.25 ft

9.) What is the diameter of a cone with a radius of 15.2 cm?

- A. 7.1 cm
- B. 7.6 cm
- C. 30.1 cm
- D. 30.4 cm

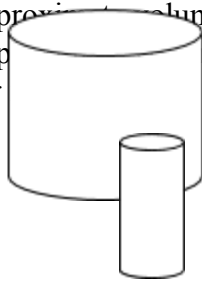
10.) What is the diameter of a sphere with a radius of 58.7 mm?

- A. 29.35 mm
- B. 34.35 mm
- C. 106.14 mm
- D. 117.4 mm

*Round each of the following answers to the nearest tenth, if necessary.

11.) What is the approximate volume of this cylinder? (Use 3.14 for π .)

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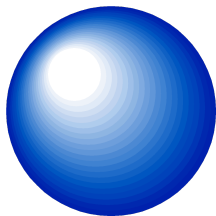


- A. 47.1 cm³
- B. 94.2 cm³
- C. 141.3 cm³
- D. 207.1 cm³
- A. 18.8 in³
- B. 21.98 in³
- C. 37.7 in³
- D. 75.2 in³

13.) A can of soup has a height of 10 cm and a diameter of 6cm. What is the volume of the can of soup? (Write answer in terms of π .)

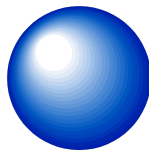
- A. 40π cm³
- B. 90π cm³
- C. 120π cm³
- D. 160π cm³

14.) What is the approximate volume of this sphere? (Use 3.14 for π .)



- A. 37.7 m³
- B. 113 m³
- C. 226 m³
- D. 254.3 m³

15.) What is the approximate volume of this sphere? (Write answer in terms of π .)



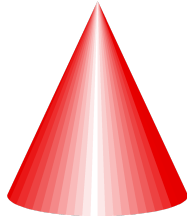
- A. 56.5π ft³
- B. 113π ft³
- C. 288π ft³
- D. 2304π ft³

16.) A sporting good store sells kickballs that have a radius of 5 in., what is the volume of each kickball? (Write answer in terms of π .)

- A. $166.7\pi \text{ in.}^3$
B. $333.3\pi \text{ in.}^3$

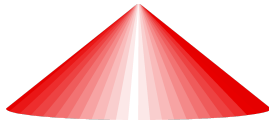
- C. $833.3\pi \text{ in.}^3$
D. $1240\pi \text{ in.}^3$

17.) What is the approximate volume of this cone? (Use 3.14 for π .)



- A. 12.6 cm^3 C. 50.2 cm^3
B. 25.1 cm^3 D. 113 cm^3

18.) What is the approximate volume of this cone? (Write answer in terms of π .)



- A. $60\pi \text{ in.}^3$ C. $240\pi \text{ in.}^3$
B. $120\pi \text{ in.}^3$ D. $360\pi \text{ in.}^3$

19.) When decorating a cake, the frosting is put into a cone shaped bag and then squeezed out of a hole at the tip of the cone. How much frosting is in a bag that has a diameter of 10 cm and a height of 15 cm? (Write answer in terms of π .)

- A. $25\pi \text{ cm}^3$
B. $50\pi \text{ cm}^3$

- C. $90\pi \text{ cm}^3$
D. $125\pi \text{ cm}^3$

20.) The volume of a cylinder is 62.8 cm^3 . If the radius is 2 cm, what is the height of the cylinder?

- A. 2.5 cm
B. 5 cm

- C. 10 cm
D. 15 cm