

Name: _____

Date: _____

Volume of Cones & Spheres

Grades 6 – 8 • 20 questions • Show your work

1. A cone has a radius of 8 cm and a height of 3 cm. Find its **volume** in terms of π . _____
 2. A sphere has a radius of 6 cm. Find its **volume** in terms of π . _____
 3. A sphere has a radius of 3 cm. Find its **volume** in terms of π . _____
 4. A cone has a radius of 8 cm and a height of 6 cm. Find its **volume** in terms of π . _____
 5. A cone has a radius of 3 cm and a height of 12 cm. Find its **volume** in terms of π . _____
 6. A cone has a radius of 4 cm and a height of 12 cm. Find its **volume** in terms of π . _____
 7. A cone has a radius of 7 cm and a height of 3 cm. Find its **volume** in terms of π . _____
 8. A sphere has a radius of 9 cm. Find its **volume** in terms of π . _____
 9. A cone has a radius of 8 cm and a height of 12 cm. Find its **volume** in terms of π . _____
 10. A cone has a radius of 7 cm and a height of 6 cm. Find its **volume** in terms of π . _____
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- 11.** A cone has a radius of 2 cm and a height of 3 cm. Find its **volume** in terms of π . _____
- 12.** A cone has a radius of 8 cm and a height of 9 cm. Find its **volume** in terms of π . _____
- 13.** A cone has a radius of 5 cm and a height of 12 cm. Find its **volume** in terms of π . _____
- 14.** A cone has a radius of 4 cm and a height of 6 cm. Find its **volume** in terms of π . _____
- 15.** A cone has a radius of 5 cm and a height of 3 cm. Find its **volume** in terms of π . _____
- 16.** A cone has a radius of 4 cm and a height of 3 cm. Find its **volume** in terms of π . _____
- 17.** A cone has a radius of 2 cm and a height of 6 cm. Find its **volume** in terms of π . _____
- 18.** A cone has a radius of 6 cm and a height of 12 cm. Find its **volume** in terms of π . _____
- 19.** A cone has a radius of 2 cm and a height of 12 cm. Find its **volume** in terms of π . _____
- 20.** A cone has a radius of 6 cm and a height of 9 cm. Find its **volume** in terms of π . _____
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Answer Key – Volume of Cones & Spheres

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|---------------------------|---------------------------|---------------------------|
| 1. $64\pi \text{ cm}^3$ | 2. $288\pi \text{ cm}^3$ | 3. $36\pi \text{ cm}^3$ |
| 4. $128\pi \text{ cm}^3$ | 5. $36\pi \text{ cm}^3$ | 6. $64\pi \text{ cm}^3$ |
| 7. $49\pi \text{ cm}^3$ | 8. $972\pi \text{ cm}^3$ | 9. $256\pi \text{ cm}^3$ |
| 10. $98\pi \text{ cm}^3$ | 11. $4\pi \text{ cm}^3$ | 12. $192\pi \text{ cm}^3$ |
| 13. $100\pi \text{ cm}^3$ | 14. $32\pi \text{ cm}^3$ | 15. $25\pi \text{ cm}^3$ |
| 16. $16\pi \text{ cm}^3$ | 17. $8\pi \text{ cm}^3$ | 18. $144\pi \text{ cm}^3$ |
| 19. $16\pi \text{ cm}^3$ | 20. $108\pi \text{ cm}^3$ | |
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