

Volume of a Cylinder - Practice Worksheet

Name: _____ Date: _____

Instructions: Find the volume of each cylinder. Use $\pi = 3.14159$ and round your answer to two decimal places unless told otherwise. Show your working.

1. A cylinder has radius $r = 3$ cm and height $h = 5$ cm. Find its volume.
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2. A cylinder has radius $r = 4$ cm and height $h = 10$ cm. Find its volume.
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3. A cylinder has diameter $d = 6$ m and height $h = 8$ m. Find its volume.
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4. A cylinder has radius $r = 7$ in and height $h = 3$ in. Find its volume.
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5. A cylindrical water tank has diameter $d = 10$ ft and height $h = 6$ ft. Find its volume.
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6. A cylinder has radius $r = 2.5$ cm and height $h = 12$ cm. Find its volume.
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7. A cylinder has radius $r = 5$ m and height $h = 5$ m. Find its volume.
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8. A cylinder has volume $V = 628.32 \text{ cm}^3$ and radius $r = 5$ cm. Find its height.
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9. A cylinder has volume $V = 1,570.80 \text{ in}^3$ and height $h = 20$ in. Find its radius.
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10. A solid metal cylinder has radius $r = 6$ cm and height $h = 14$ cm. A cylindrical hole of radius $r = 2$ cm and the same height is drilled through its center. Find the volume of the remaining solid.
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Answer Key

1. 141.37 cm^3
2. 502.65 cm^3
3. 226.19 m^3
4. 461.81 in^3
5. 471.24 ft^3
6. 235.62 cm^3
7. 392.70 m^3
8. $h = 8 \text{ cm}$
9. $r = 5 \text{ in}$
10. $1,382.30 \text{ cm}^3$