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Free Cylinder Worksheets Help Students Practice Volume Calculation Surface area of a cylinder: To find the volume, use the formula  $\text{Volume} = \pi r^2 h$ , where  $r$  is the radius and  $h$  is the height. Given that the diameter is 7 cm, the radius can be found by dividing it in half, resulting in a value of 3.5 cm. Substituting this into the formula yields  $V \approx 384.9 \text{ cm}^3$ . For surface area, consider each face separately. The two bases have an area of  $\pi r^2$ , which equals  $12.25\pi \text{ cm}^2$  for this cylinder. The curved side has an area of  $2\pi rh$ , equalling  $70\pi \text{ cm}^2$ . Adding these together gives a total surface area of approximately  $296.9 \text{ cm}^2$ . These formulas and techniques provide a solid foundation for calculating the volumes and surface areas of various cylinders, especially suitable for grade 8 and high school students practicing with free printable worksheets.

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