

Name: _____

Determining Volume

For each given figure, determine base area (spheres won't have a base area) and use it to identify the volume of the given figure.

<p>1. Determine the volume of a prism with a rectangular base with sides of 15 cm connected at a right angle by a side length of 4 cm. The height of the prism is 8 cm.</p>	<p>2. Determine the volume of a sphere with a radius of 3in.</p>	<p>3. Determine the volume of a cylinder with a radius of 8ft and a height from base to base of 11ft.</p>
<p>4. Determine the volume of a cone with a radius of 15in. The height of the figure is 7in.</p>	<p>5. Determine the volume of a sphere that has a diameter of 18 centimeters. <i>Remember, the radius is half as long as the diameter.</i></p>	<p>6. Determine the volume of a cylinder with a height from base to base of 12 ft, and a radius of 4 ft.</p>
<p>7. Determine the volume of a rectangular prism that has a base with sides 8, 3, 8 & 3. The distance between bases is 7.</p>	<p>8. Determine the volume of a triangular pyramid. Two of the sides of the right triangle base, connected by a right angle are 6 and 8. The height of the pyramid is 3.</p>	<p>9. Determine the volume of a sphere with a radius of 2 meters. Write your answer in terms of pi.</p>

<p>10. Determine the volume of a rectangular prism with base length of 9 in and base width of 10 in. The distance from base to base is 11 in.</p>	<p>11. Determine the volume of a cylinder with a radius of 4 and a height of 18.</p>	<p>12. Determine the volume of a right cone with a radius of 6, a height of 8, and a slant height of 10.</p>
<p>13. Determine the volume of a right cone with a height of 12 and a radius of 5. Leave your answer in terms of π.</p>	<p>14. Determine the volume of a sphere with a diameter of 14 ft. Leave your answer in terms of π.</p>	<p>15. Determine the volume of a right rectangular prism with height 10 cm, length 8 cm, and width 7 cm.</p>
<p>16. Determine the volume of a rectangular pyramid with a height of 8 in, a length of 6 in, and a width of 2 in.</p>	<p>17. Determine the volume of a sphere with a diameter of 24 ft. Leave your answer in terms of π.</p>	<p>18. Determine the surface area of a right rectangular pyramid with height 9 cm, slant height 15 cm, length 8 cm, and width 3 cm.</p>