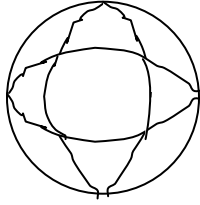
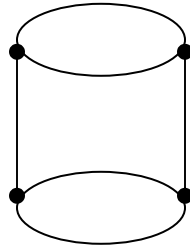


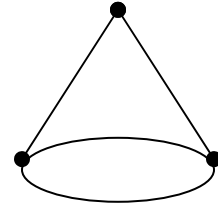
Measures Surface Area & Volume Page 1 A  
Surface Area & Volume of the Six Basic 3D Images of Plane Euclidean Geometry.  
 All answers for Surface Area & Volume must have the correct labels.



R = 3in

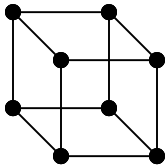


R = 2ft H = 7ft

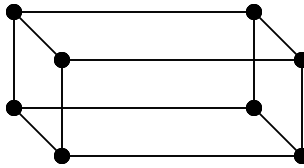


R=3yd S = 5yd H = 4yd

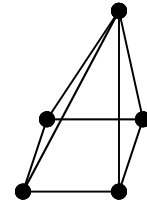
<p><b><u>Sphere:</u></b> <math>TSA = 4\pi \times (\text{radius})^2</math></p> <p>Total Surface Area = <math>4 \pi R^2</math></p> <p>-----</p> <p><b><u>Sphere:</u></b> <math>V = (4/3)\pi \times (\text{radius})^3</math></p> <p>Volume = <math>4/3 \pi R^3</math></p>	<p><b><u>Cylinder:</u></b> <math>TSA = 2\pi \times (\text{radius})^2 + CxH</math></p> <p>Total Surface Area = <math>2 \pi R^2 + CxH</math></p> <p>-----</p> <p><b><u>Cylinder:</u></b> <math>V = \text{base area} \times \text{height}</math></p> <p>Volume = <math>(\pi R^2) \times H</math></p>	<p><b><u>Cone:</u></b> <math>TSA = \pi(\text{radius})^2 + \frac{1}{2} CxS</math></p> <p>Total Surface Area = <math>\pi R^2 + \frac{1}{2} CxS</math></p> <p>-----</p> <p><b><u>Cone:</u></b> <math>V = (1/3) \times \text{base area} \times \text{height}</math></p> <p>Volume = <math>1/3 \pi R^2 H</math></p>
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S = 2 yd



L = 2in W = 6in H = 3in



B = 3ft S = 6ft H = 5ft

<p><b><u>Cube:</u></b> <math>TSA = 6 (\text{side length})^2</math></p> <p>Total Surface Area = <math>6xS^2</math></p> <p>-----</p> <p><b><u>Cube:</u></b> <math>V = (\text{side length})^3</math></p> <p>Volume = <math>S^3</math></p>	<p><b><u>Prism:</u></b> <math>TSA = (FxB)^2 + (TxB)^2 + (RxL)^2</math></p> <p>TSurfaceArea = <math>2LW + 2HL + 2HW</math></p> <p>-----</p> <p><b><u>Prism:</u></b> <math>V = \text{base area} \times \text{height}</math></p> <p>Volume = <math>L \times W \times H</math></p>	<p><b><u>Pyramid:</u></b> <math>TSA = \text{base area} + 4(\text{TriangleAreas})</math></p> <p>TSurface Area = <math>B^2 + 4(1/2xBxS)</math></p> <p>-----</p> <p><b><u>Pyramid:</u></b> <math>V = (1/3) \times \text{base area} \times \text{height}</math></p> <p>Volume = <math>1/3 B^2 \times H</math></p>
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