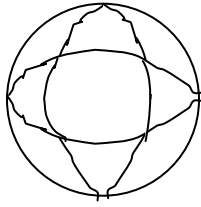
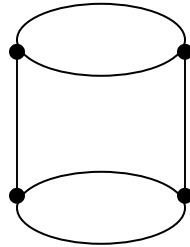


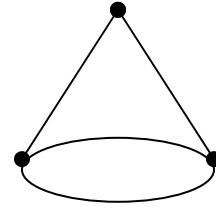
Measures1 Surface Area & Volume 1 B  
Surface Area & Volume of the Six Basic 3D Images of Plane Euclidean Geometry.  
 All answers for Surface Area & Volume must have the correct labels.



**R = 5ft**

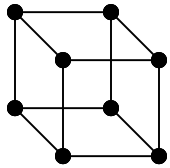


**R = 3ft H = 5ft**

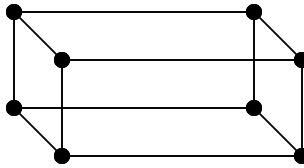


**R=5ft S = 7ft H = 4ft**

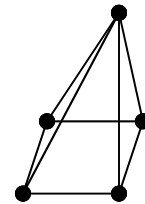
<p><b>Sphere:</b> <math>TSA = 4\pi \times (\text{radius})^2</math></p> <p><math>TSA = 4 \pi R^2 = \underline{100 \pi \text{ sqft}}</math></p> <p>-----</p> <p><b>Sphere:</b> <math>V = (4/3)\pi \times (\text{radius})^3</math></p> <p><math>V = 4/3 \pi R^3 = \underline{100/3 \pi \text{ cuft}}</math></p>	<p><b>Cylinder:</b> <math>TSA = 2\pi \times (\text{radius})^2 + C \times H</math></p> <p><math>TSA = 2 \pi R^2 + C \times H = \underline{48 \pi \text{ sqft}}</math></p> <p>-----</p> <p><b>Cylinder:</b> <math>V = \text{base area} \times \text{height}</math></p> <p><math>V = (\pi R^2) \times H = \underline{45 \pi \text{ cuft}}</math></p>	<p><b>Cone:</b> <math>TSA = \pi(\text{radius})^2 + \frac{1}{2} C \times S</math></p> <p><math>TSA = \pi R^2 + \frac{1}{2} C \times S = \underline{60 \pi \text{ sqft}}</math></p> <p>-----</p> <p><b>Cone:</b> <math>V = (1/3) \times \text{base area} \times \text{height}</math></p> <p><math>V = 1/3 \pi R^2 H = \underline{100/3 \pi \text{ cuft}}</math></p>
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**S = 3 in**



**L = 3in W= 5in H = 4in**



**B = 4in S = 8in H = 6in**

<p><b>Cube:</b> <math>TSA = 6 (\text{side length})^2</math></p> <p><math>TSA = 6 \times S^2 = \underline{16 \text{ sq in}}</math></p> <p>-----</p> <p><b>Cube:</b> <math>V = (\text{side length})^3</math></p> <p><math>\text{Volume} = S^3 = \underline{27 \text{ cu in}}</math></p>	<p><b>Prism:</b> <math>TSA = (F \times B)^2 + (T \times B)^2 + (R \times L)^2</math></p> <p><math>TSA = 2LW + 2HL + 2HW = \underline{94 \text{ sq in}}</math></p> <p>-----</p> <p><b>Prism:</b> <math>V = \text{base area} \times \text{height}</math></p> <p><math>\text{Volume} = L \times W \times H = \underline{60 \text{ cu in}}</math></p>	<p><b>Pyramid:</b> <math>TSA = \text{base area} + 4(\text{TriangleAreas})</math></p> <p><math>TSA = B^2 + 4(1/2 \times B \times S) = \underline{80 \text{ sq in}}</math></p> <p>-----</p> <p><b>Pyramid:</b> <math>V = (1/3) \times \text{base area} \times \text{height}</math></p> <p><math>\text{Volume} = 1/3 B^2 \times H = \underline{32 \text{ cu in}}</math></p>
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