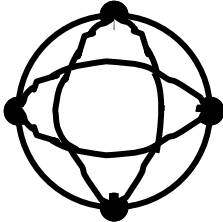
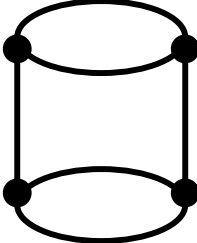
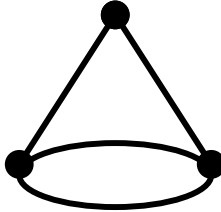
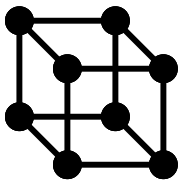
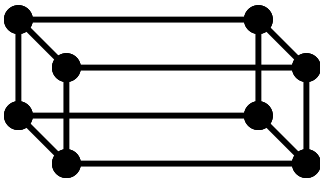
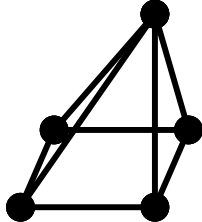


Surface Area & Volume of the Six Basic 3D Images of Plane Euclidean Geometry.

All answers for Surface Area & Volume must have the correct labels.

Characteristics of 3D images: Faces, Edges, Vertices

 <p style="text-align: center;">$C = 2 \pi r = \pi d$</p>	 <p style="text-align: center;">$A = \text{Altitude}$</p>	 <p style="text-align: center;">$S = \text{Side } A = \text{Altitude } C = 2 \pi r$</p>
<p><u>Sphere:</u> $TSA = 4\pi \times (\text{radius})^2$</p> <p>Total Surface Area = $4 \pi r^2$</p> <hr style="border-top: 1px dashed black;"/> <p><u>Sphere:</u> $V = (4/3)\pi \times (\text{radius})^3$</p> <p>Volume = $4/3 \pi r^3$</p>	<p><u>Cylinder:</u> $TSA = 2\pi \times (\text{radius})^2 + C \times A$</p> <p>Total Surface Area = $2 \pi r^2 + 2 \pi r A$</p> <hr style="border-top: 1px dashed black;"/> <p><u>Cylinder:</u> $V = \text{base area} \times \text{height}$</p> <p>Volume = $(\pi r^2) \times A$</p>	<p><u>Cone:</u> $TSA = \pi(\text{radius})^2 + \frac{1}{2} C \times S$</p> <p>Total Surface Area = $\pi r^2 + \pi r S$</p> <hr style="border-top: 1px dashed black;"/> <p><u>Cone:</u> $V = (1/3) \times \text{base area} \times \text{Altitude}$</p> <p>Volume = $1/3 (\pi r^2) (A)$</p>

 <p style="text-align: center;">$S = \text{side dimension}$</p>	 <p style="text-align: center;">Length, Width, Height</p>	 <p style="text-align: center;">$S = \text{Side } A = \text{Altitude } B = \text{Base}$</p>
<p><u>Cube:</u> $TSA = 6 (\text{side dimension})^2$</p> <p>Total Surface Area = $6 S^2$</p> <hr style="border-top: 1px dashed black;"/> <p><u>Cube:</u> $V = (\text{side dimension})^3$</p> <p>Volume = S^3</p>	<p><u>Prism:</u> $TSA = 2(lw) + 2(wh) + 2(lh)$</p> <p>Total Surface Area = $2LW + 2WH + 2LH$</p> <hr style="border-top: 1px dashed black;"/> <p><u>Prism:</u> $V = \text{base area} \times \text{height}$</p> <p>Volume = $(L) \times (W) \times (H)$</p>	<p><u>Pyramid:</u> $TSA = \text{base area} + 4(\text{TriangleAreas})$</p> <p>Total Surface Area = $B^2 \times 4(1/2 \times B \times S)$</p> <hr style="border-top: 1px dashed black;"/> <p><u>Pyramid:</u> $V = (1/3) \times \text{base area} \times \text{altitude}$</p> <p>Volume = $1/3 (B^2) \times (A)$</p>