
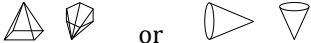




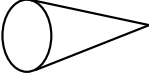

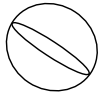


Identifying the Base Shape on 3-D Figures

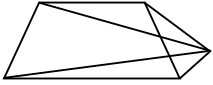
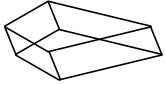




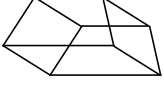
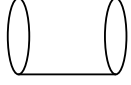
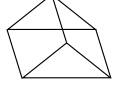
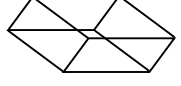


There are three basic categories for three-dimensional figures:

1. Prism or Cylinder— **2 parallel (matching) base shapes** connected by parallelograms or a tube with two circular bases
2. Pyramid or Cone— **1 base shape** connected to a vertex by triangles or a circle connected to a vertex by a curved surface
3. Sphere— Three-dimensional circle (a ball); there are **no base shapes** on a sphere

Prism or Cylinder	Pyramid or Cone	Sphere
		
<p>It has 2 parallel bases that are the same shape and size.</p> <p>The bases are the two matching parallel faces that are different from the other shapes.</p> <p>If all the faces are the same shape, then any set of two parallel sides can be the bases.</p>	<p>It has 1 base, and no parallel sides.</p> <p>The base is the face that is a different shape from the other faces.</p> <p>If all the faces are the same shape, then any face can be the base shape.</p>	<p>It has no base.</p>

For each figure shown below, identify the type of three-dimensional figure, identify the shape of the base(s), write the area formula for the base shape, and explain how to determine the perimeter of the base shape.

<p>EXAMPLE</p> <div style="text-align: center;">  </div> <p>Three-dimensional shape: <u>Two triangles connected by three rectangles...It's a prism.</u></p> <p>Shape of the base: <u>The different sides are Triangles.</u></p> <p>Area formula for the base shape: $A = \frac{bh}{2}$</p> <p>How to find Perimeter of the base: <u>Add all of the sides.</u></p>	<p>EXAMPLE</p> <div style="text-align: center;">  </div> <p>Three-dimensional shape: <u>A circle connected to a point... It's a cone.</u></p> <p>Shape of the base: <u>Circle</u></p> <p>Area formula for the base shape: $A = \pi r^2$</p> <p>How to find Perimeter of the base: $P = 2\pi r$</p>	<p>EXAMPLE</p> <div style="text-align: center;">  </div> <p>Three-dimensional shape: <u>One big circle, like a ball... It's a sphere.</u></p> <p>Shape of the base: <u>There is no base. None.</u></p> <p>Area formula for the base shape: <u>Ummm...no base, means no formula.</u></p> <p>How to find Perimeter of the base: <u>No base means that's not possible.</u></p>
<p>1.</p> <div style="text-align: center;">  </div> <p>Three-dimensional shape: _____</p> <p>Shape of the base: _____</p> <p>Area formula for the base shape: _____</p> <p>How to find Perimeter of the base: _____</p>	<p>2.</p> <div style="text-align: center;">  </div> <p>Three-dimensional shape: _____</p> <p>Shape of the base: _____</p> <p>Area formula for the base shape: _____</p> <p>How to find Perimeter of the base: _____</p>	<p>3.</p> <div style="text-align: center;">  </div> <p>Three-dimensional shape: _____</p> <p>Shape of the base: _____</p> <p>Area formula for the base shape: _____</p> <p>How to find Perimeter of the base: _____</p>

<p>4.</p>  <p>Three-dimensional shape:</p> <hr/> <p>Shape of the base:</p> <hr/> <p>Area formula for the base shape:</p> <hr/> <p>How to find Perimeter of the base:</p> <hr/>	<p>5.</p>  <p>Three-dimensional shape:</p> <hr/> <p>Shape of the base:</p> <hr/> <p>Area formula for the base shape:</p> <hr/> <p>How to find Perimeter of the base:</p> <hr/>	<p>6.</p>  <p>Three-dimensional shape:</p> <hr/> <p>Shape of the base:</p> <hr/> <p>Area formula for the base shape:</p> <hr/> <p>How to find Perimeter of the base:</p> <hr/>
<p>7.</p>  <p>Three-dimensional shape:</p> <hr/> <p>Shape of the base:</p> <hr/> <p>Area formula for the base shape:</p> <hr/> <p>How to find Perimeter of the base:</p> <hr/>	<p>8.</p>  <p>Three-dimensional shape:</p> <hr/> <p>Shape of the base:</p> <hr/> <p>Area formula for the base shape:</p> <hr/> <p>How to find Perimeter of the base:</p> <hr/>	<p>9.</p>  <p>Three-dimensional shape:</p> <hr/> <p>Shape of the base:</p> <hr/> <p>Area formula for the base shape:</p> <hr/> <p>How to find Perimeter of the base:</p> <hr/>
<p>10.</p>  <p>Three-dimensional shape:</p> <hr/> <p>Shape of the base:</p> <hr/> <p>Area formula for the base shape:</p> <hr/> <p>How to find Perimeter of the base:</p> <hr/>	<p>11.</p>  <p>Three-dimensional shape:</p> <hr/> <p>Shape of the base:</p> <hr/> <p>Area formula for the base shape:</p> <hr/> <p>How to find Perimeter of the base:</p> <hr/>	<p>12.</p>  <p>Three-dimensional shape:</p> <hr/> <p>Shape of the base:</p> <hr/> <p>Area formula for the base shape:</p> <hr/> <p>How to find Perimeter of the base:</p> <hr/>
<p>13.</p>  <p>Three-dimensional shape:</p> <hr/> <p>Shape of the base:</p> <hr/> <p>Area formula for the base shape:</p> <hr/> <p>How to find Perimeter of the base:</p> <hr/>	<p>14.</p>  <p>Three-dimensional shape:</p> <hr/> <p>Shape of the base:</p> <hr/> <p>Area formula for the base shape:</p> <hr/> <p>How to find Perimeter of the base:</p> <hr/>	<p>15.</p>  <p>Three-dimensional shape:</p> <hr/> <p>Shape of the base:</p> <hr/> <p>Area formula for the base shape:</p> <hr/> <p>How to find Perimeter of the base:</p> <hr/>