

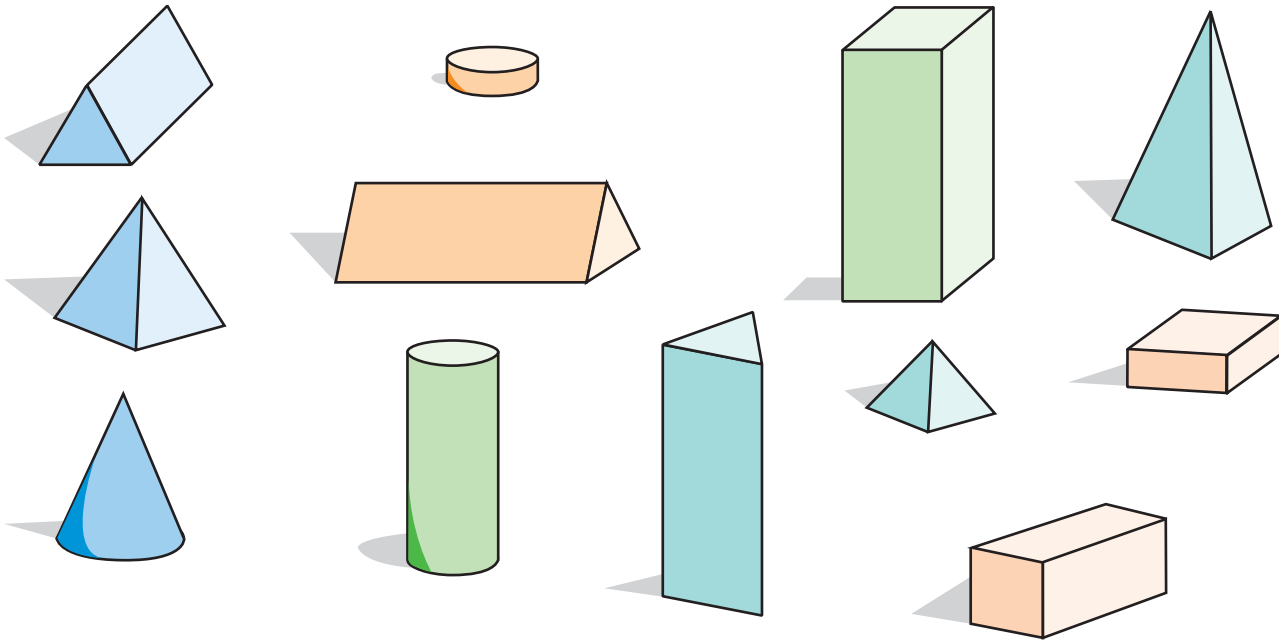
Going On a Figure Safari

NCTM Standards 3, 6, 7, 8, 9, 10



For each puzzle, look through all the polyhedra and list the letters of those that appear to match the clues. Try standing each figure on different faces to see if there is any way the figure might fit the clues.

Clues	Answers
<p>1 <input checked="" type="checkbox"/> All of my faces are rectangles.</p> <p><input checked="" type="checkbox"/> At least 2 of my faces are squares.</p>	
<p>2 <input checked="" type="checkbox"/> I have at least 2 faces that are parallel to each other.</p>	
<p>3 <input checked="" type="checkbox"/> All of my angles are right.</p> <p><input checked="" type="checkbox"/> All of my faces are congruent.</p>	
<p>4 <input checked="" type="checkbox"/> I have the same number of faces as vertices.</p> <p><input checked="" type="checkbox"/> At least 3 of my faces are congruent.</p>	
<p>5 <input checked="" type="checkbox"/> I have more vertices than faces.</p> <p><input checked="" type="checkbox"/> At least one of my faces is not a rectangle.</p> <p><input checked="" type="checkbox"/> None of my faces is perpendicular to another face.</p>	



Write the name of the figure that matches each puzzle. Use pyramid, prism, cone, or cylinder.

Clues	Answers
<p>6 <input checked="" type="checkbox"/> All of my faces are polygons.</p> <p><input checked="" type="checkbox"/> None of my faces is parallel to another face.</p>	
<p>7 <input checked="" type="checkbox"/> Two of my faces are congruent and parallel to each other.</p> <p><input checked="" type="checkbox"/> All of my other faces are parallelograms.</p>	
<p>8 <input checked="" type="checkbox"/> All of my faces are polygons.</p> <p><input checked="" type="checkbox"/> I have the same number of faces and vertices.</p>	

9 Challenge

- I have exactly two congruent surfaces.
- The two surfaces are not polygons.