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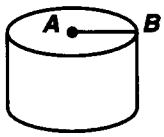
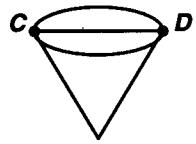
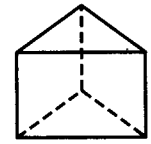
These three-dimensional figures are **space figures,** or solids.

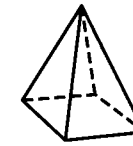


cylinder



cone


prism

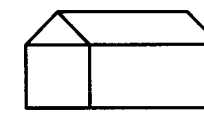

pyramid

A **cylinder** has two congruent circular bases. $\overline{AB}$ is a radius.

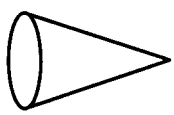
A **cone** has one circular base. $\overline{CD}$ is a diameter.

A **prism** has two bases that are congruent and parallel. The lateral faces are parallelograms. A **pyramid** has one base. The lateral faces are triangles. The shape of a base is used to name the solid. A triangular prism and a square pyramid are shown above.

The top part of a building at the right is a triangular prism. The bottom part is a rectangular prism.

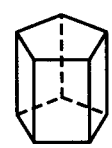


For each figure, describe the base of the figure and name the figure.

1. 

_____ _____

_____ _____

2. 

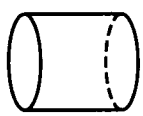
_____ _____

_____ _____

3. 

_____ _____

_____ _____

4. 

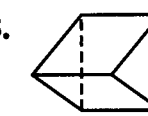
_____ _____

_____ _____

5. 

_____ _____

_____ _____

6. 

_____ _____

_____ _____

What three-dimensional figures make up the water tank?

7. _____

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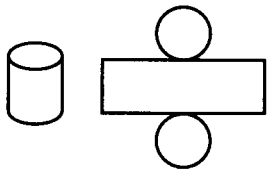
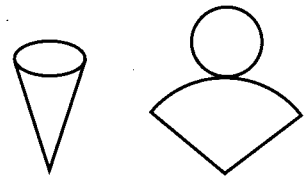
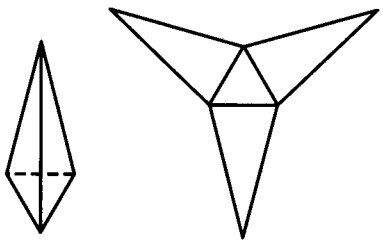
You can make **nets,** or flat patterns, of space figures.
You can also identify the space figure from its net.



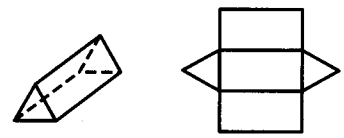
The net of a cylinder shows a rectangle and 2 circles. You can fold the net to make the cylinder.



The net of a cone shows a circle and a part of a circle.



The net of a triangular pyramid shows 4 triangular surfaces. To make the pyramid, fold up the outer triangles.



The net of a triangular prism shows 3 rectangles for the lateral faces of the prism and 2 triangles for the bases.

State the number and type of each shape that is found in a net for the given figure.

1. rectangular prism _____ _____

2. cylinder _____ _____

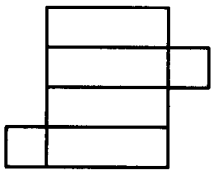
3. hexagonal prism _____ _____

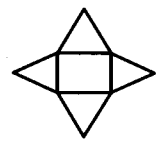
4. rectangular pyramid _____ _____

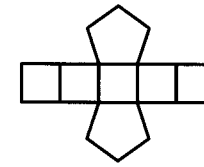
5. cube _____ _____

6. cone _____ _____

Name the space figure for each net.

7.  _____

8.  _____

9.  _____