

6.0

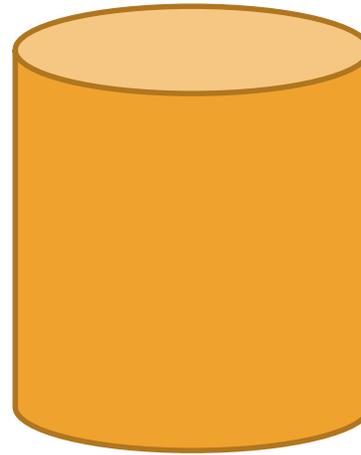
**SPACE
GEOMETRY**

Objectives

- 1. Introduce some basic solids.**
- 2. Be able to sketch the basic solids.**

SPACE GEOMETRY

- **3-D figures**
- **Objects not restricted to flat surfaces**



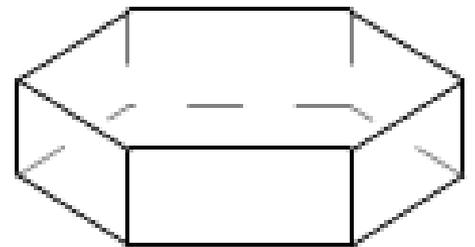
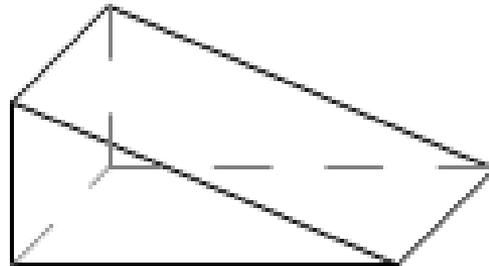
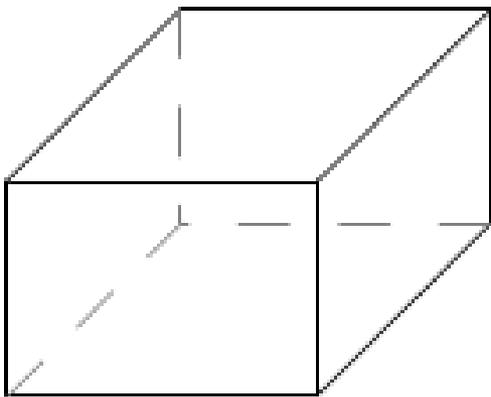
DRAWING SPACE OBJECTS:

Solid Lines

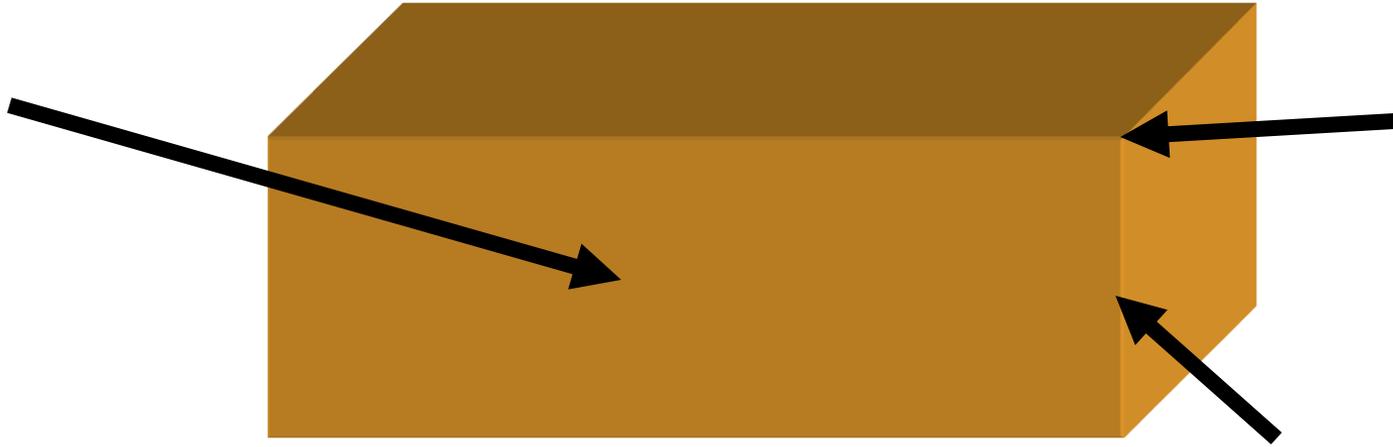
Lines that you see

Dashed Lines

Lines that would be visible if object was solid



RECTANGULAR SOLID



DRAWING RECTANGULAR SOLIDS

FACE-FORWARD

DRAWING RECTANGULAR SOLIDS

EDGE-FORWARD

DRAWING SOLIDS

CYLINDER

DRAWING SOLIDS

SQUARE PYRAMID

DRAWING SOLIDS

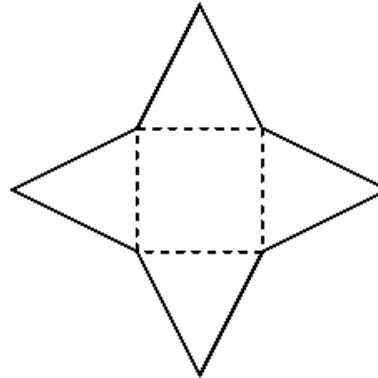
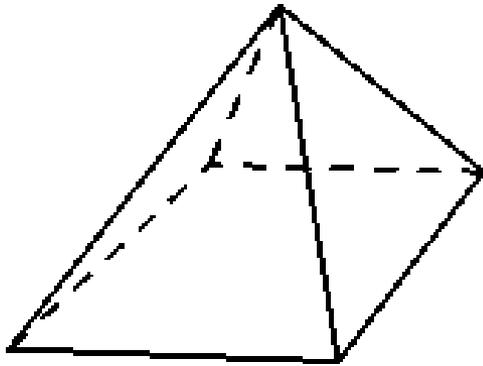
PENTAGONAL PYRAMID

DRAWING SOLIDS

SPHERE

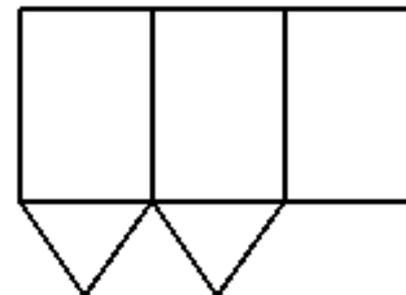
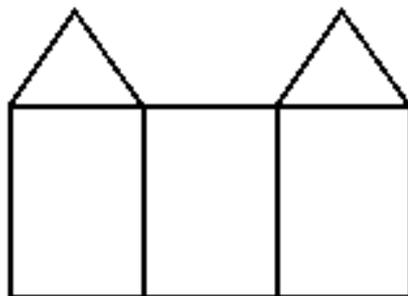
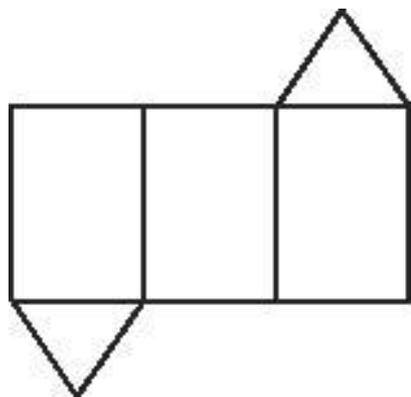
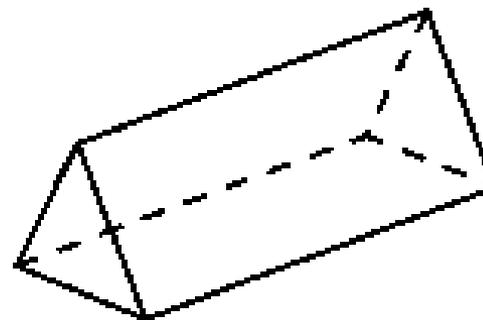
NETS

A two-dimensional flat diagram that represents a three-dimensional figure. It shows all of the shapes that make up the faces of a solid.



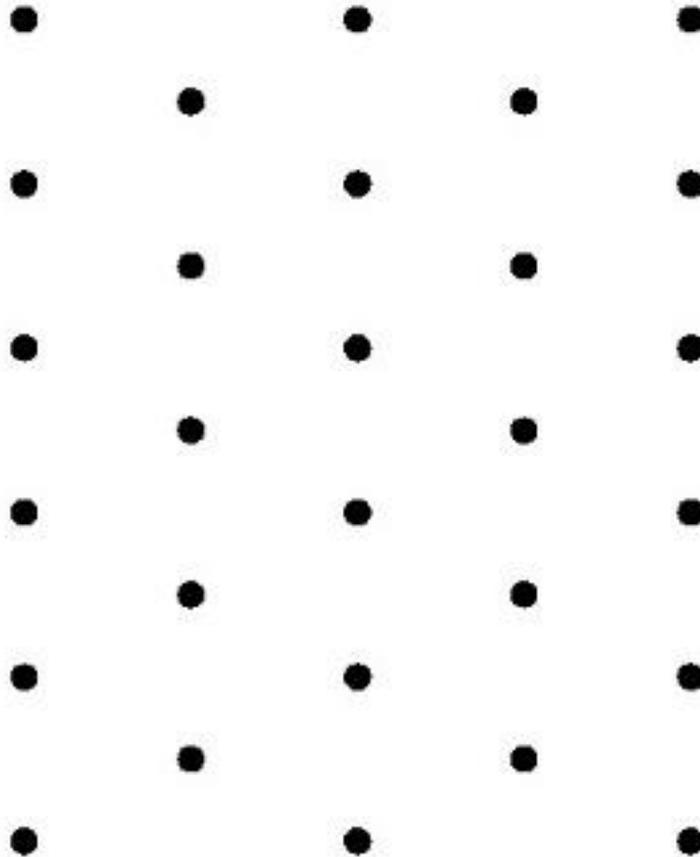
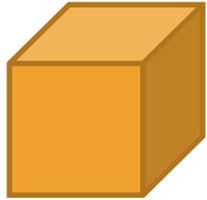
NETS

What is a possible net for the figure shown?



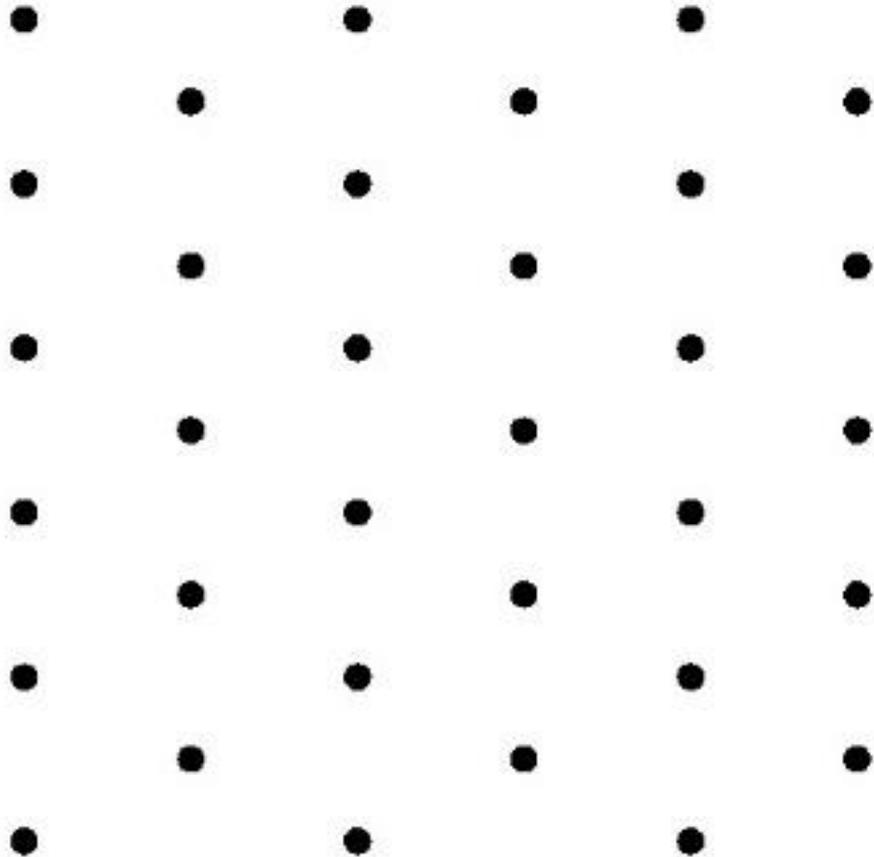
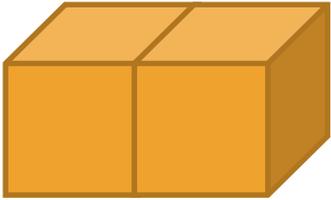
ISOMETRIC DRAWINGS

An *isometric drawing* is an edge-forward drawing of a three-dimensional figure. It shows the top, front, and side views.



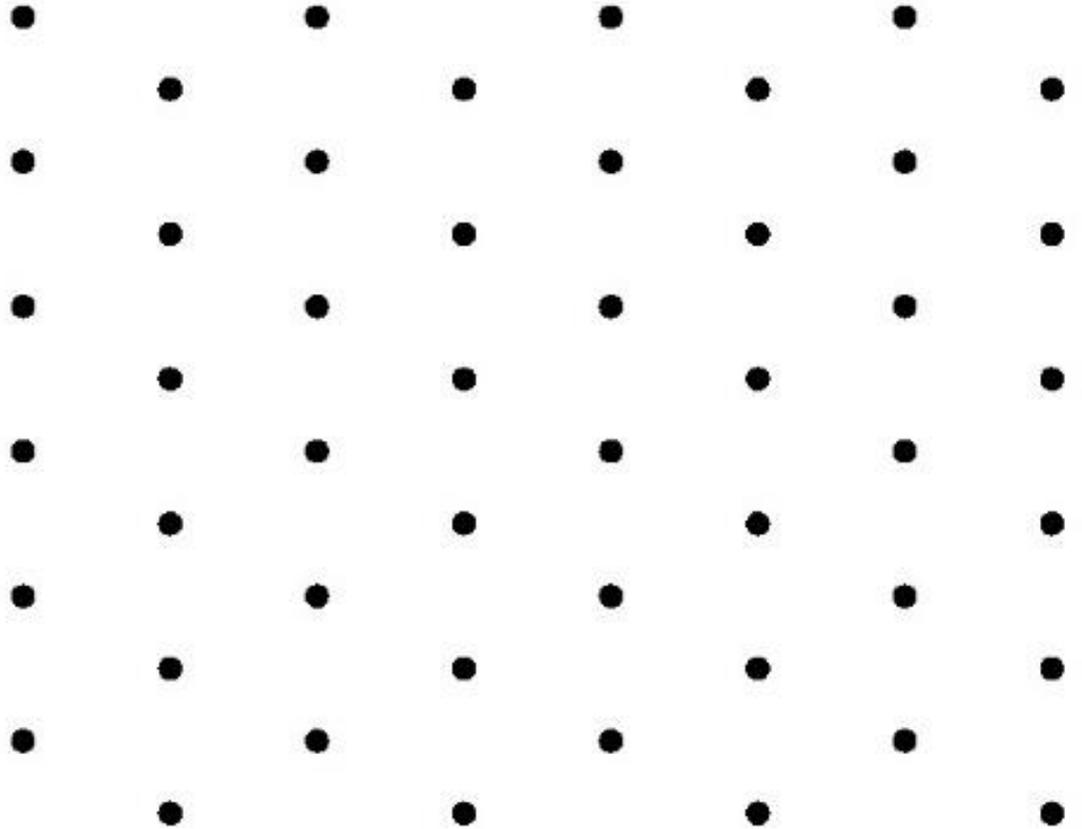
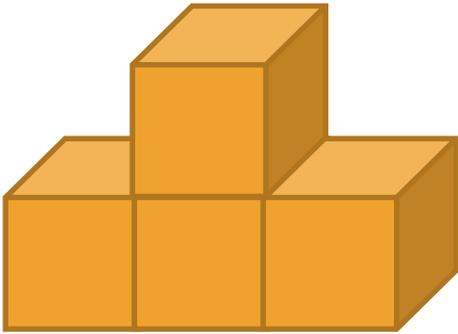
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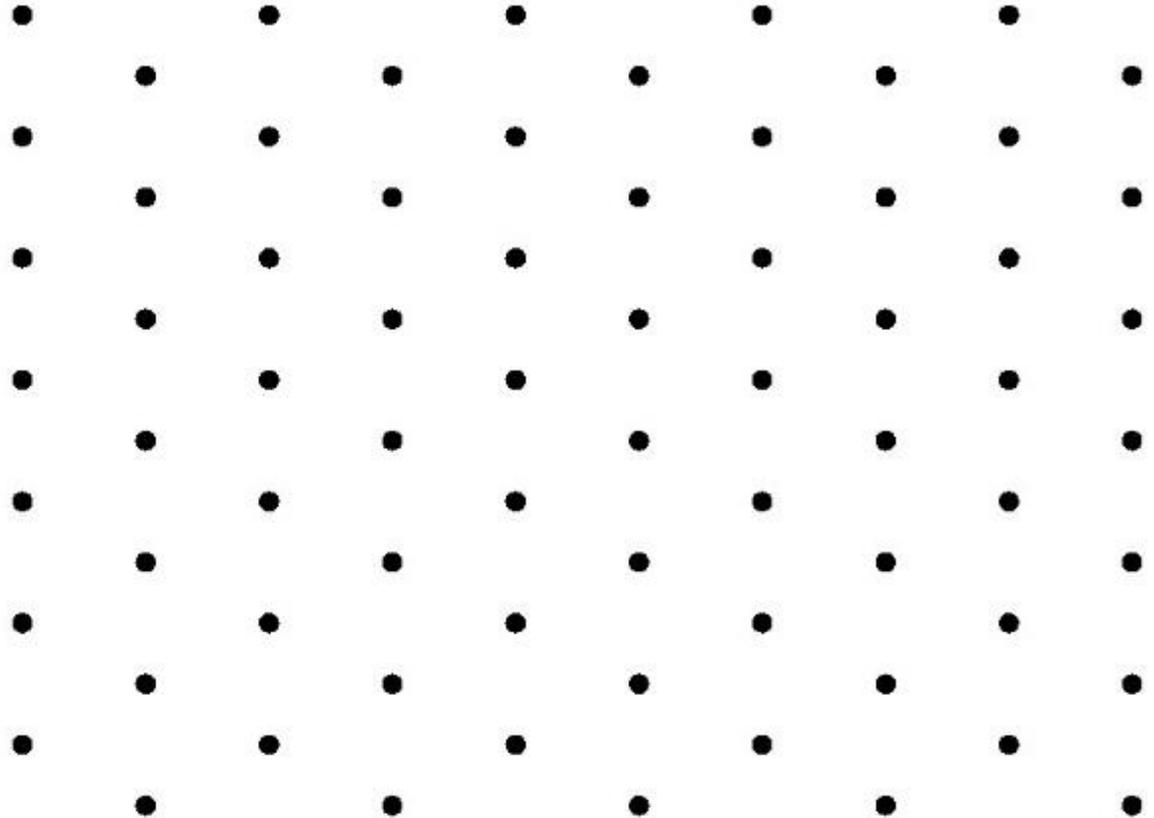
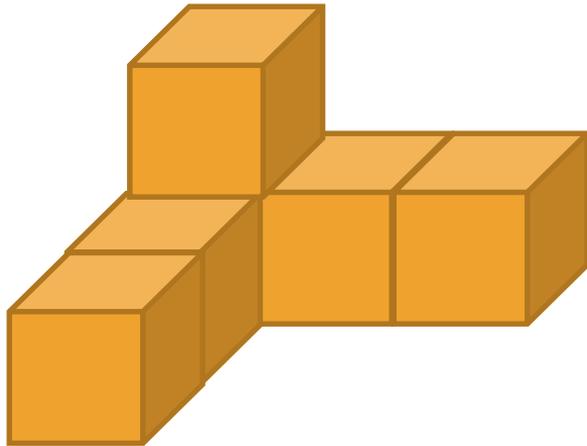
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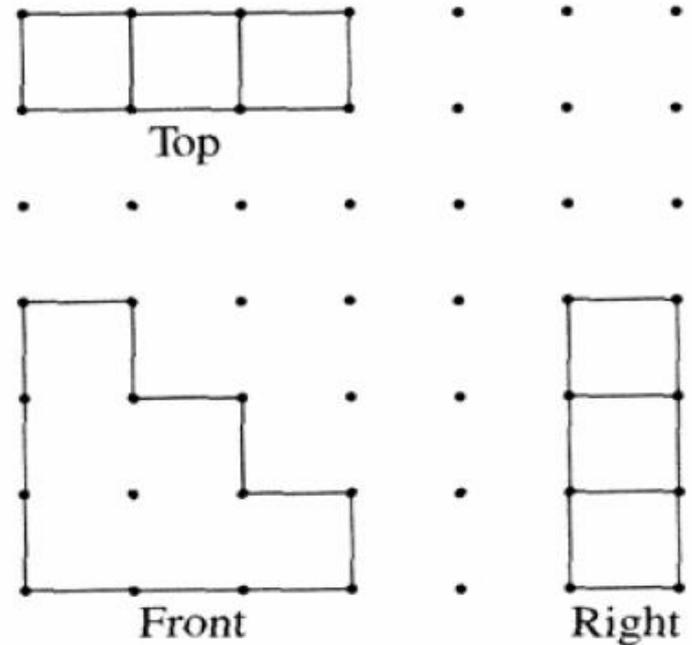
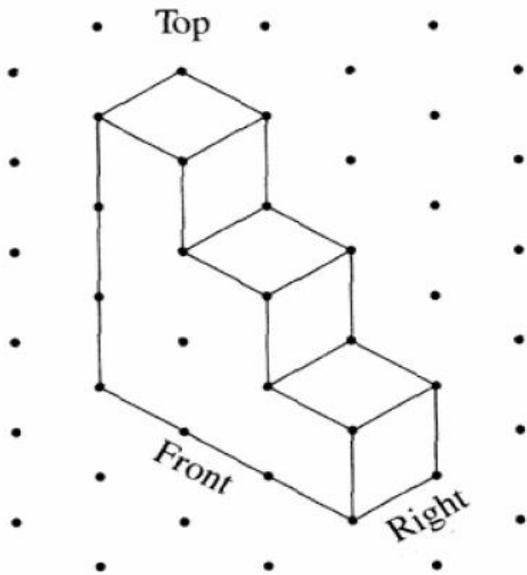
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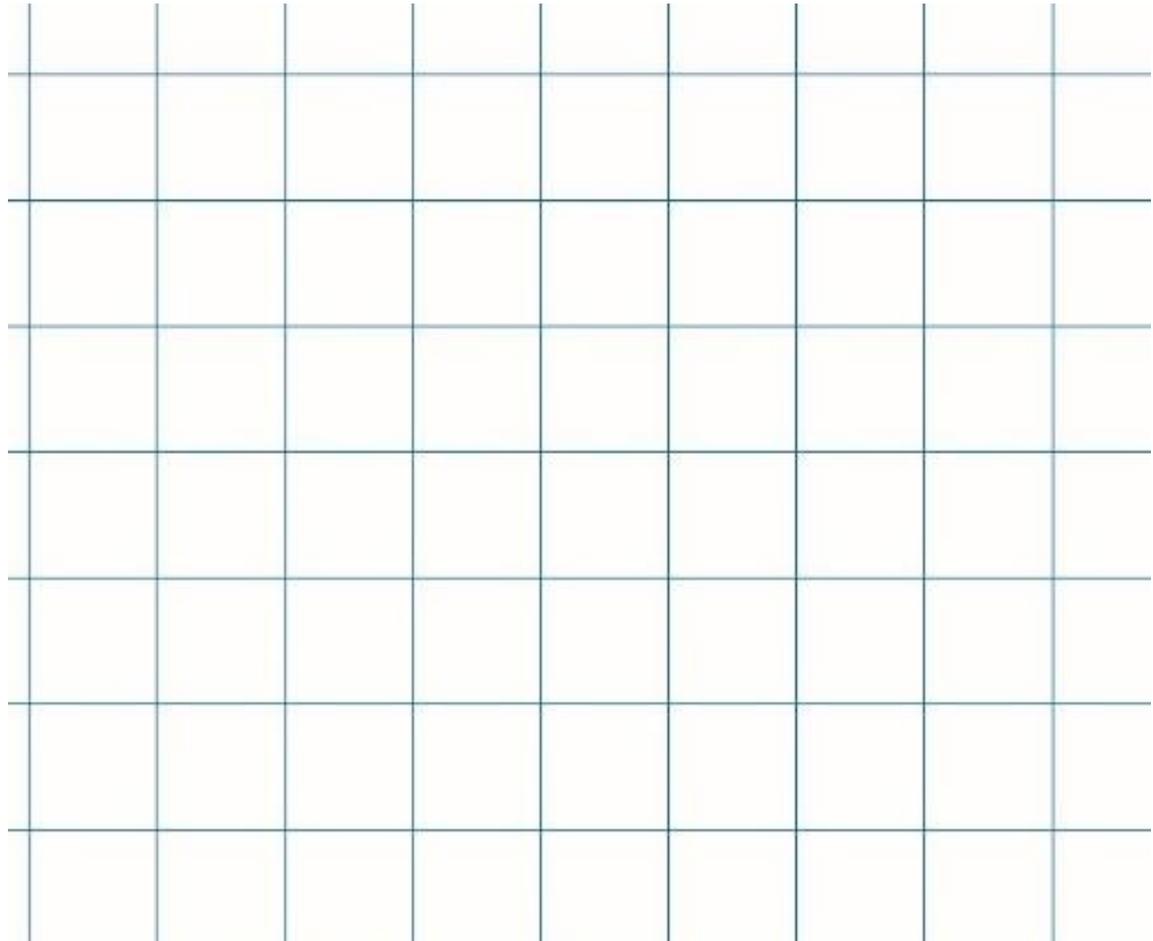
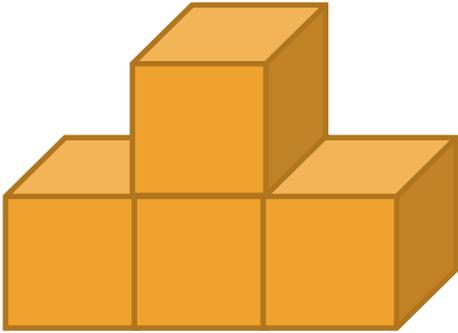
ORTHOGRAPHIC DRAWINGS

- Shows the views of an object in 2-D
- Usually the top, front, and right side views.



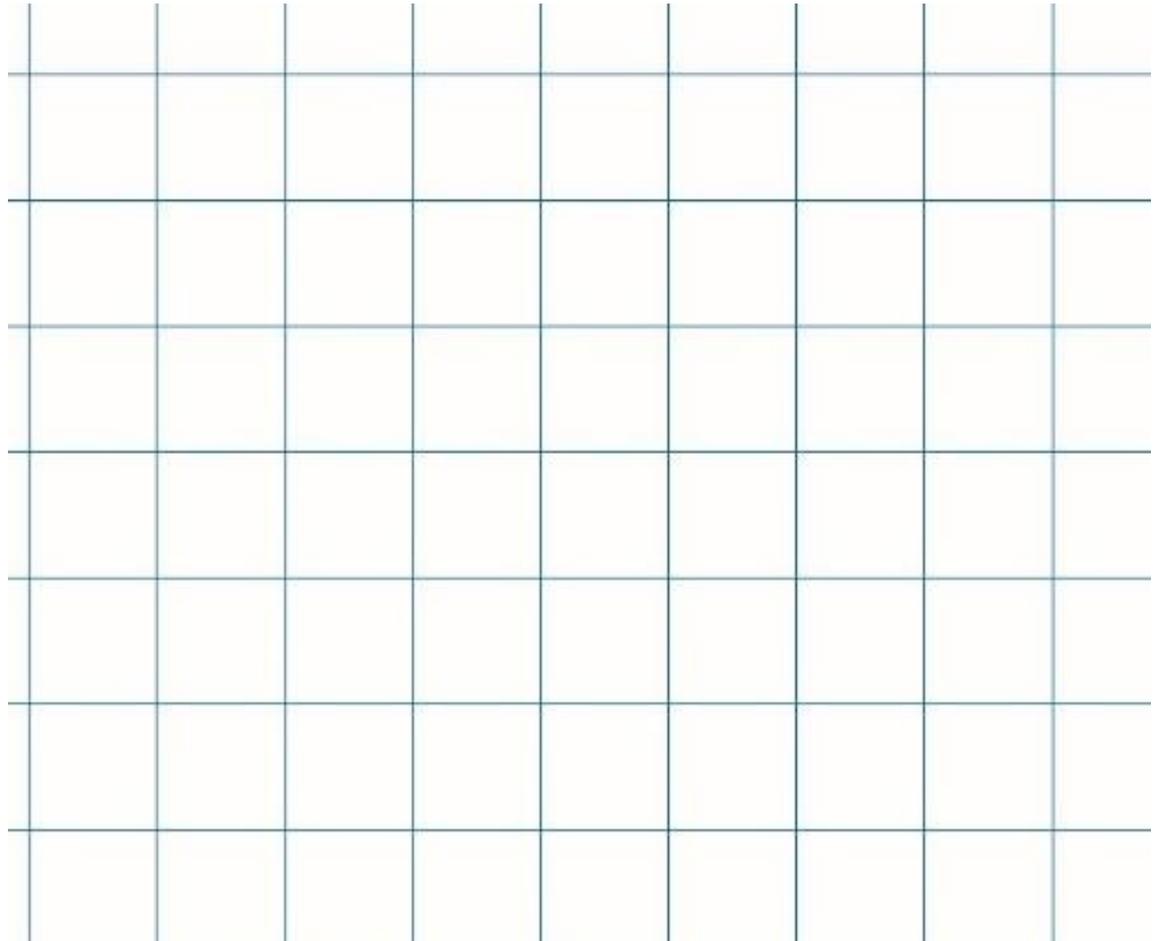
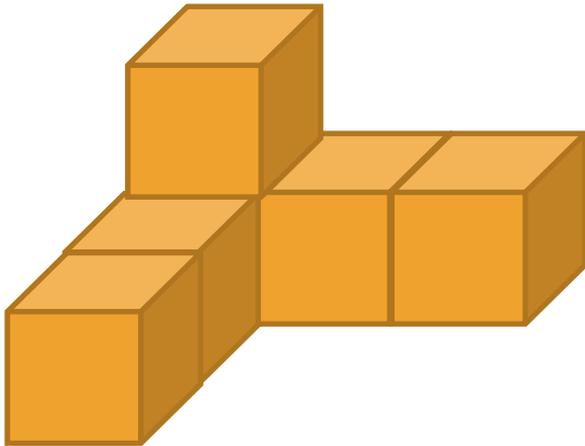
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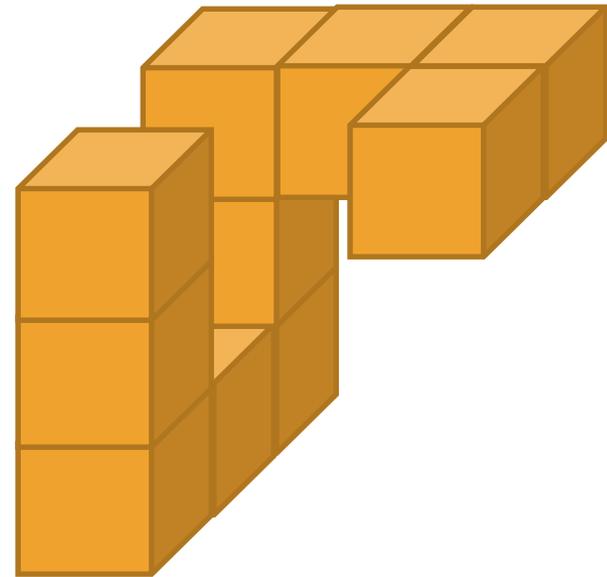
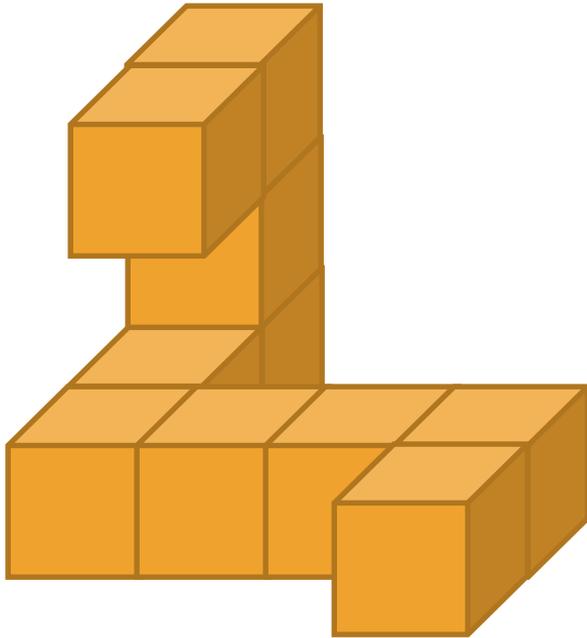
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CHALLENGE PROBLEMS

Draw the isometric and orthographic drawings of the following.



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