6.5A

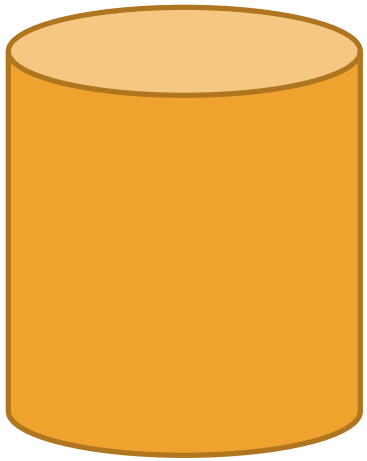
SPACE GEOMETRY

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



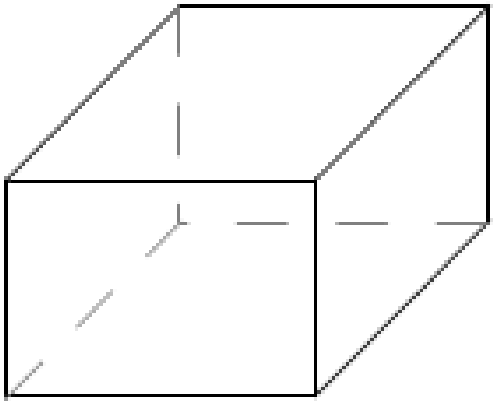
DRAWING SPACE OBJECTS:

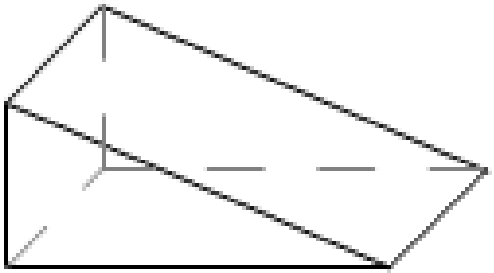
Solid Lines

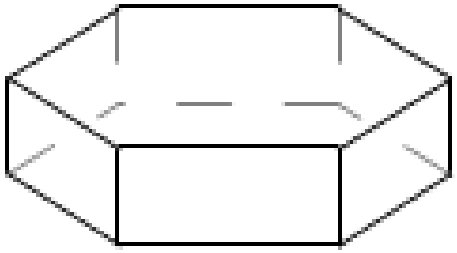
Lines that you see

Dashed Lines

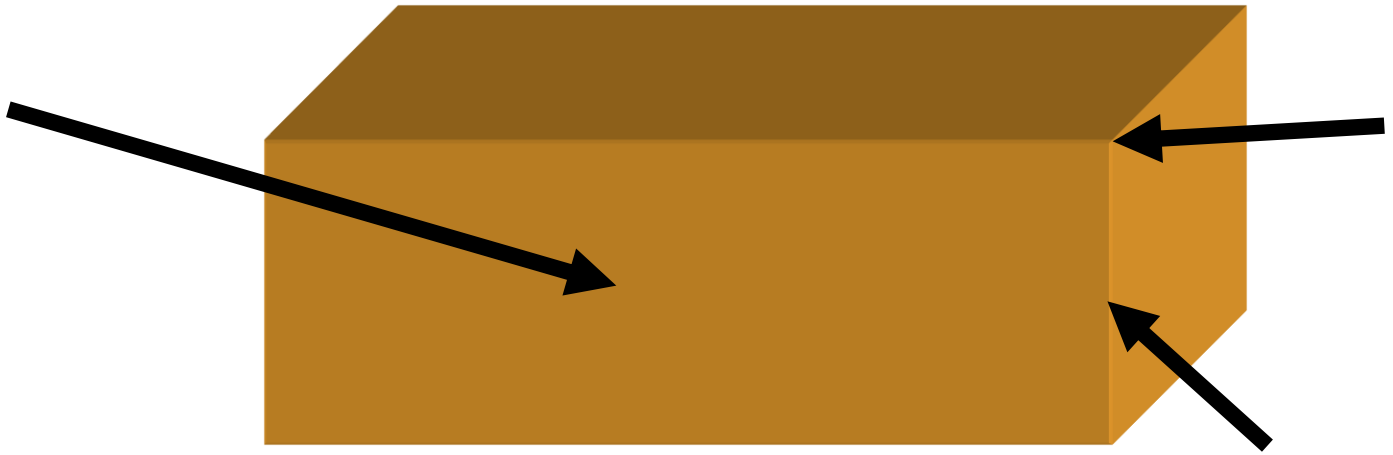
Lines that would be visible if object was solid







RECTANGULAR SOLID



DRAWING RECTANGULAR SOLIDS

FACE-FORWARD

DRAWING RECTANGULAR SOLIDS

EDGE-FORWARD

DRAWING SOLIDS

CYLINDER

DRAWING SOLIDS

SQUARE PYRAMID

DRAWING SOLIDS

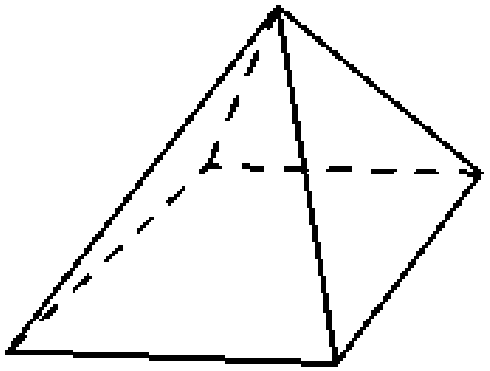
PENTAGONAL PYRAMID

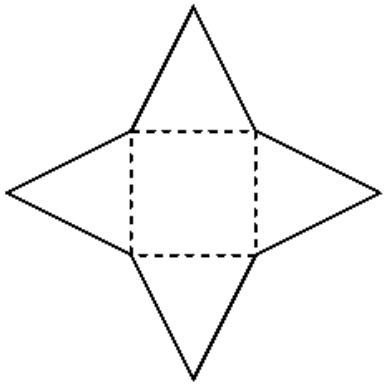
DRAWING SOLIDS

SPHERE

NETS

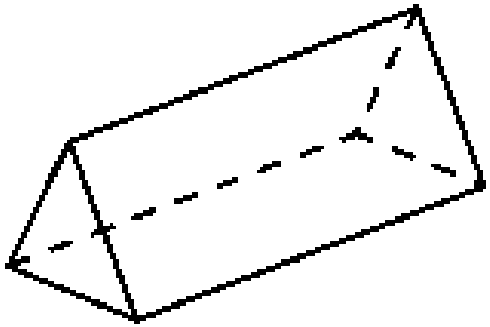
A two-dimensional flat diagram that represents a three-dimensional figure. It shows all of the shapes that make up the faces of a solid.

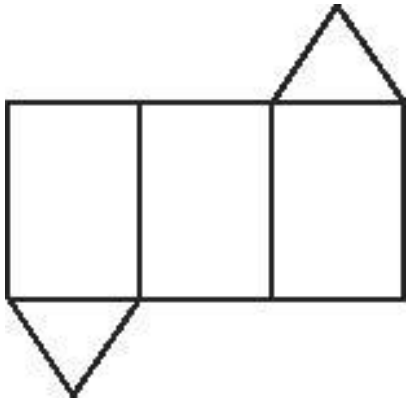


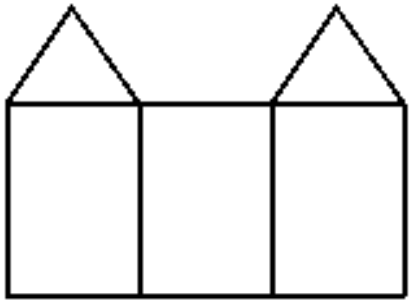


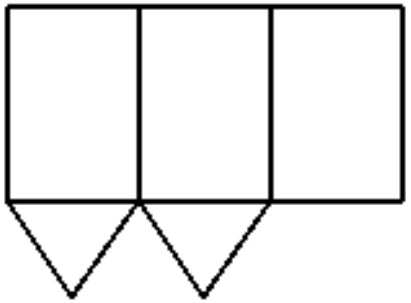
NETS

What is a possible net for the figure shown?



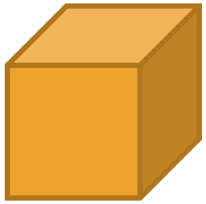


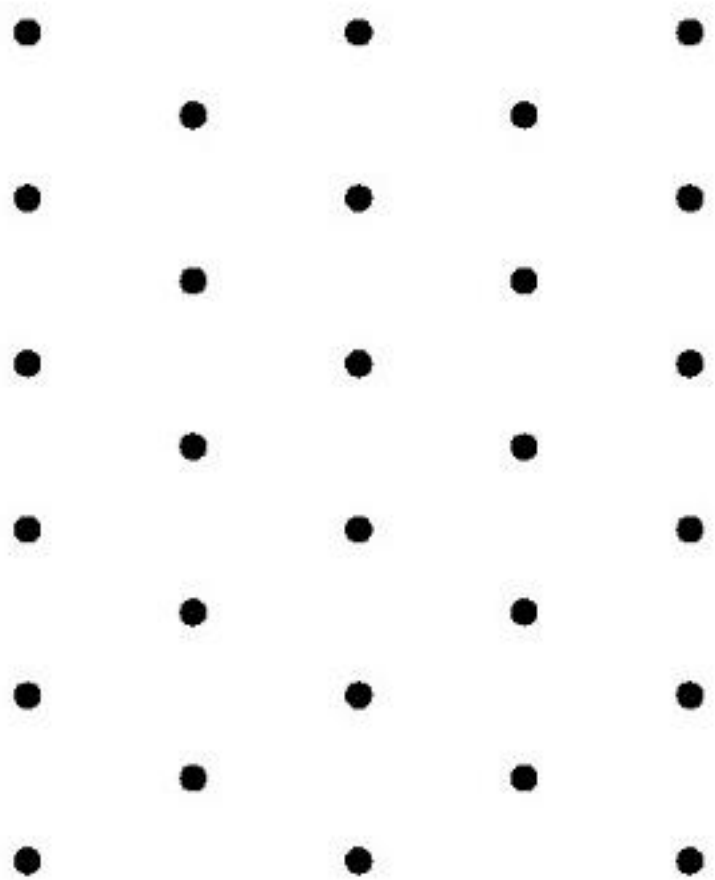




ISOMETRIC DRAWINGS

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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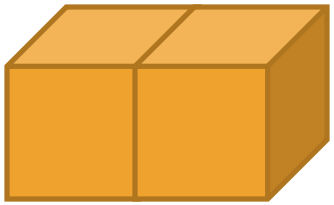

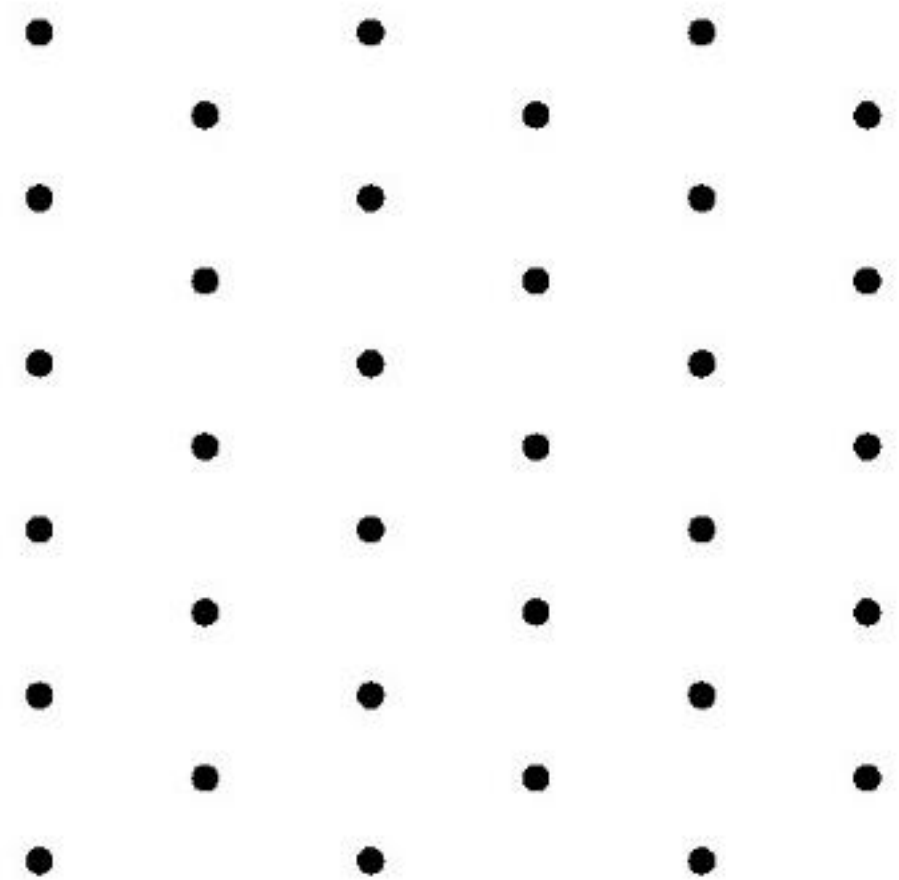

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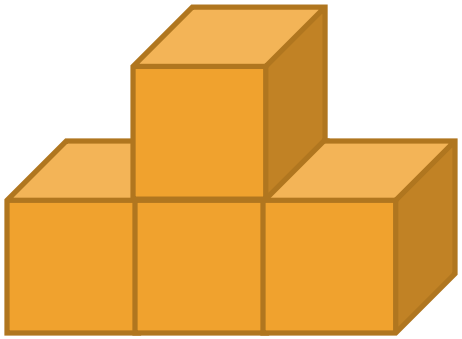

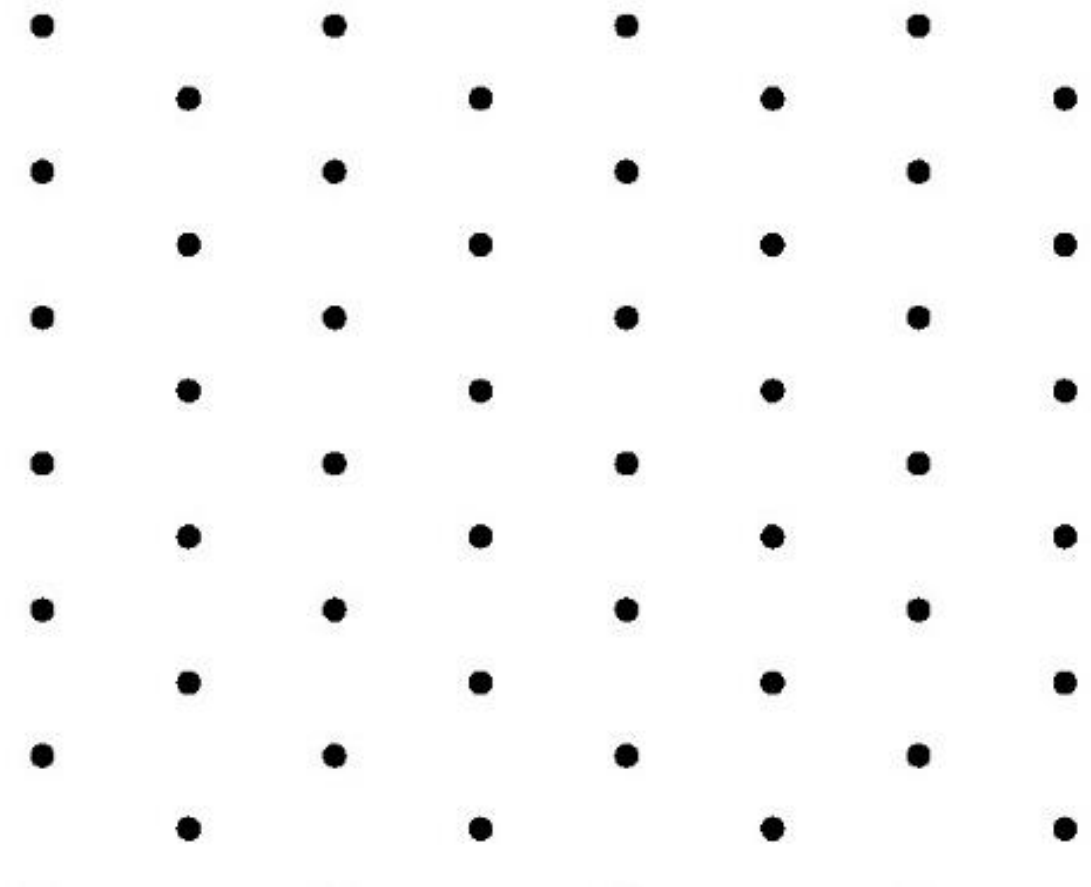

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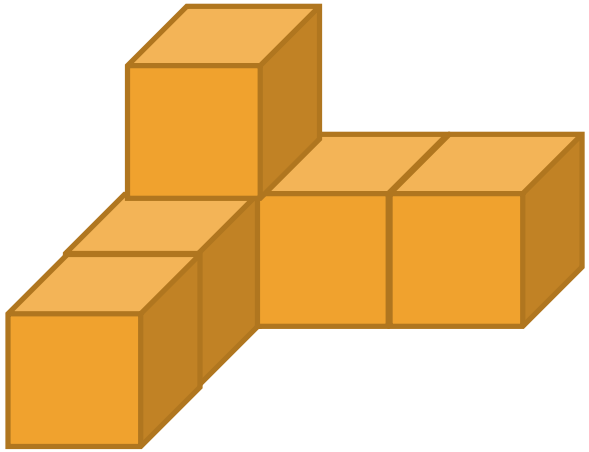
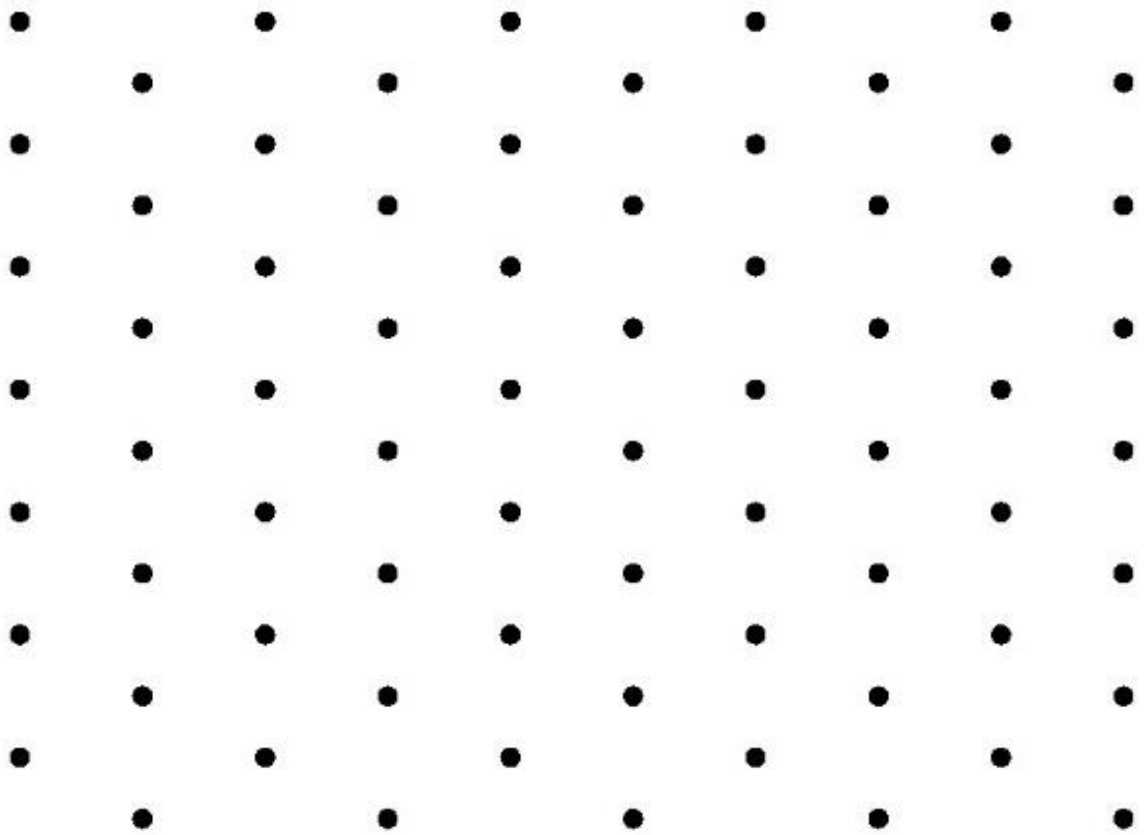
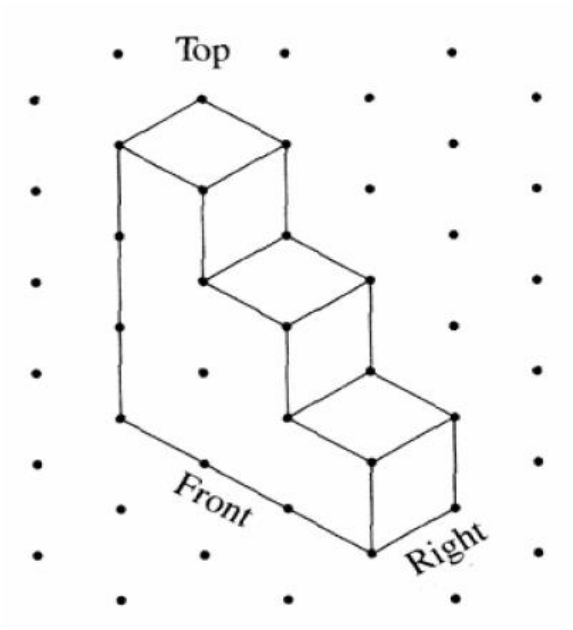
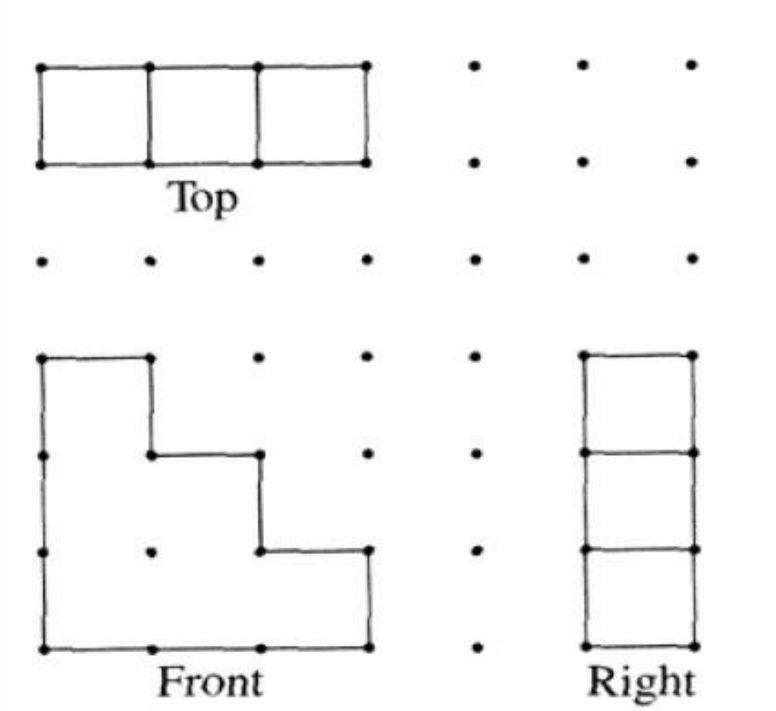




ORTHOGRAPHIC DRAWINGS

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





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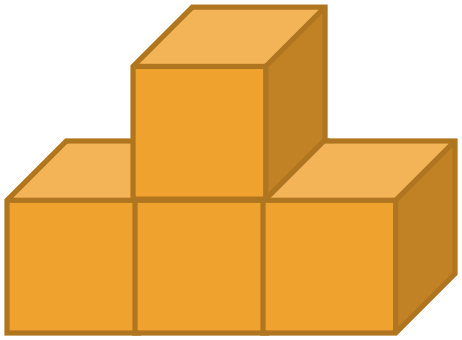

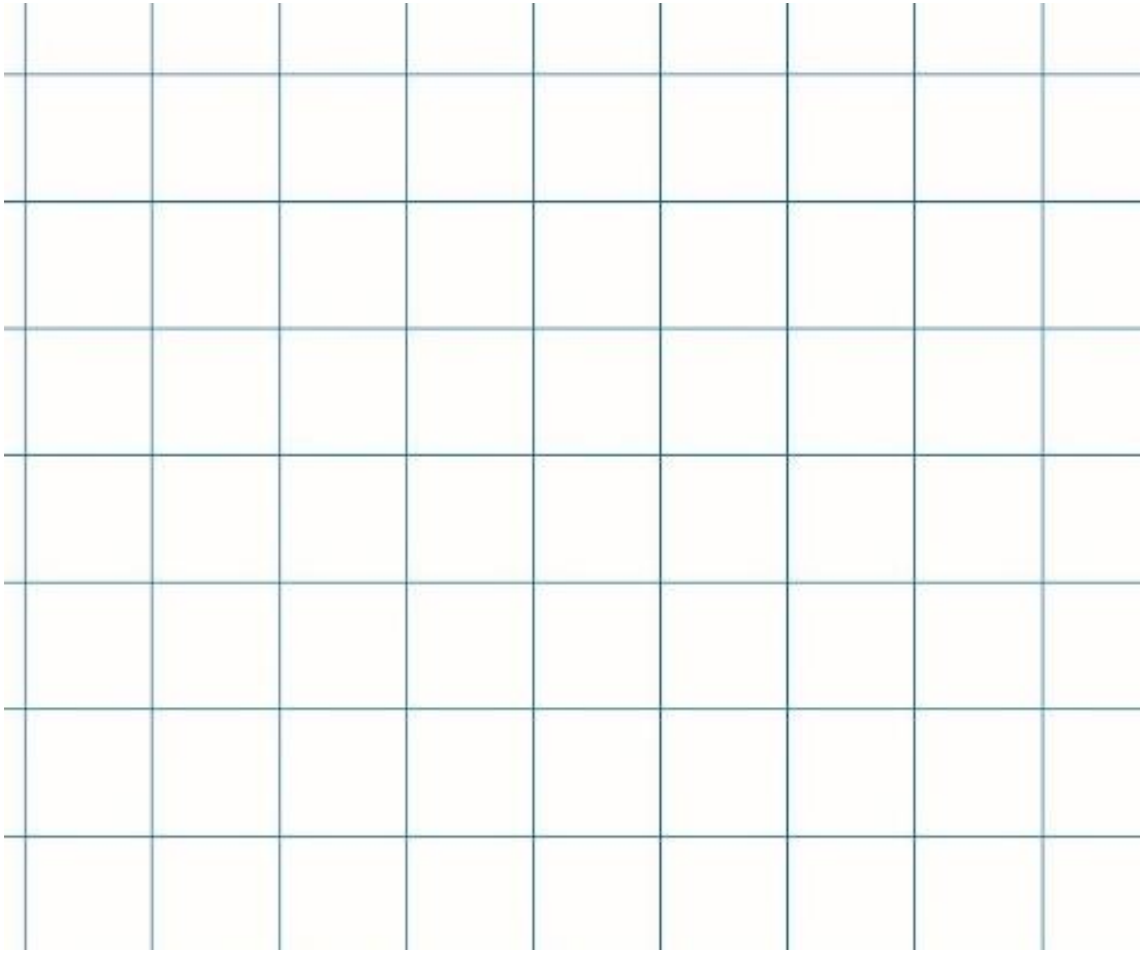

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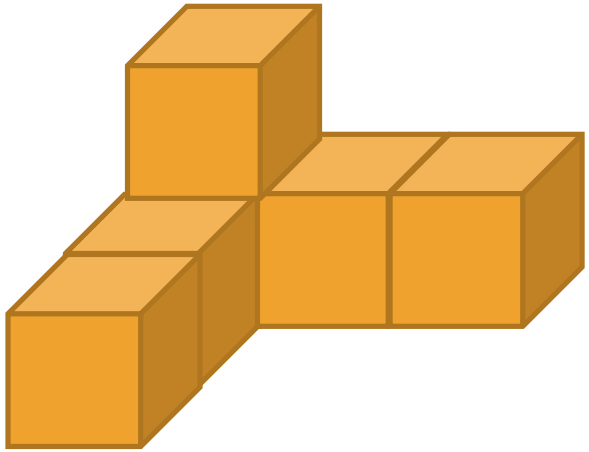
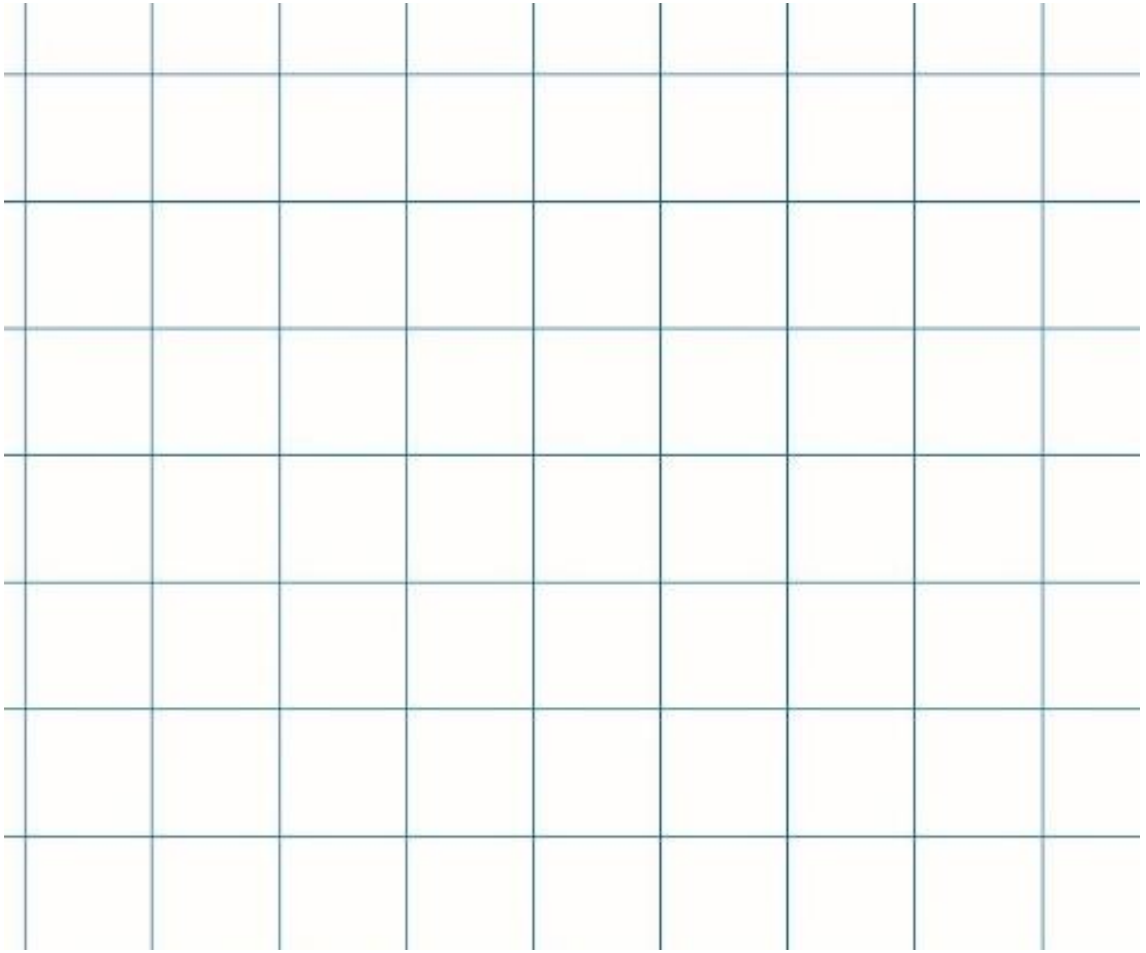
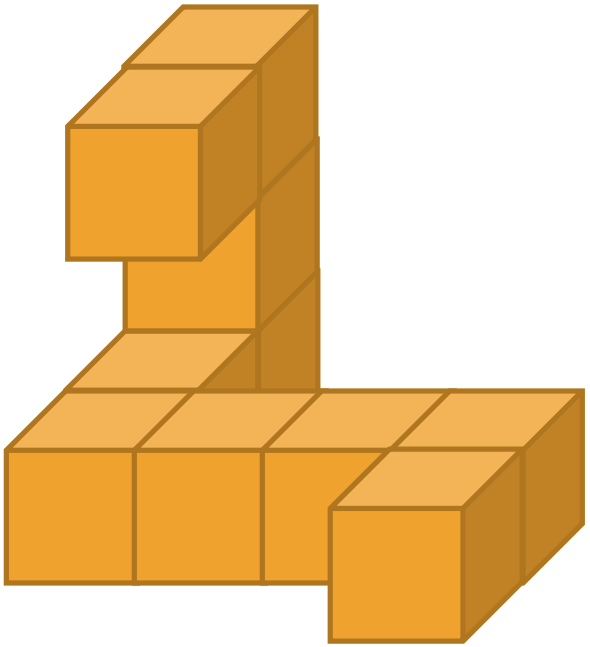
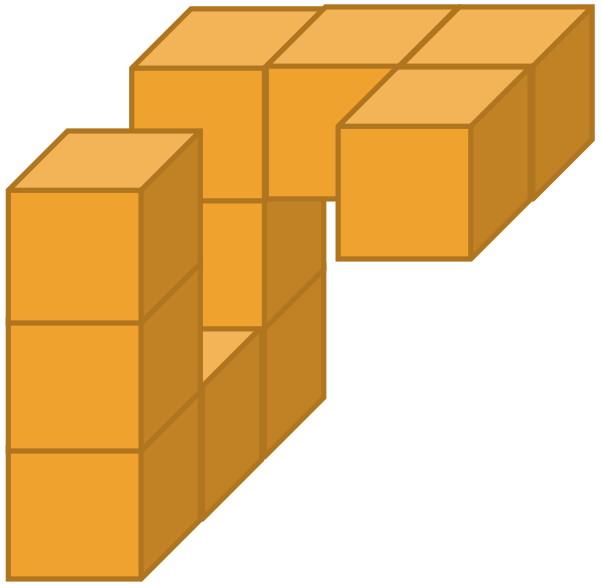




CHALLENGE PROBLEMS

Draw the isometric and orthographic drawings of the following.





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