

1-1 Nets and Drawings for Visualizing Geometry
(C) Content Standard Prepares for G.C0.1 Know predise definitions of angle, circle, perpendicular line, parallel line, and line segment, based on the undefined notions of point, line, distance along a line, and distance around a circular arc

Objective To make nets and drawings of three-dimensional figures

Essential Understanding You can representa a three-dimensional object with a two-dimensional figure using special drawing techniques.

A net is a two-dimensional diagram that you can fold to form a three-dimensional figure. A net shows all of the surfaces of a figure in one view.

## Problem 1 Identifying a Solid From a Net

The net at the right folds into the cube shown beside it. Which letters will be on the top and front of the cube?


Packaging designers use nets to design boxes and other containers like the box in Problem 2.

## Problem 2 Drawing a Net From a Solid SIEM

Package Design What is a net for the graham cracker box to the right? Label the net with its dimensions.



## An orthographic drawing is another way to represent a three-dimensional figure.

 An orthographic drawing shows three separate views: a top view, a front view, and a right-side view.Although an orthographic drawing may take more time to analyze, it provides unique information about the shape of a structure.


