THE FUNCTION OF:

A POINT

Specific point on a line or plane.

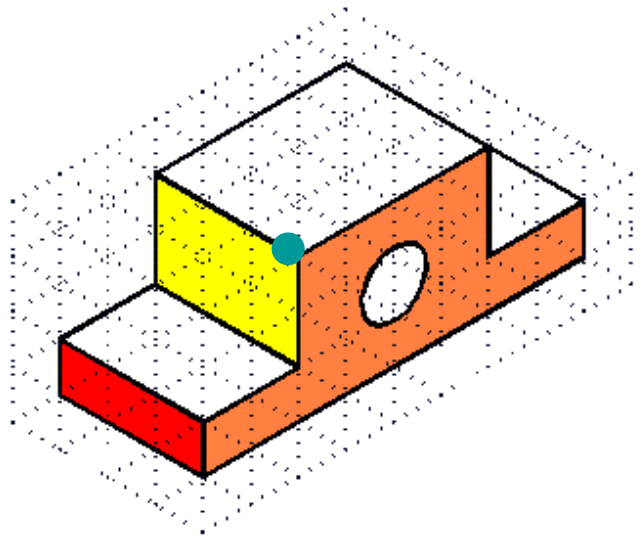No matter how you look at a point, it always appears as a point.

A LINE

Connects two points.

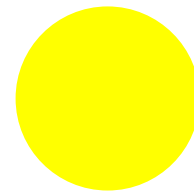A line segment may appear as a line or as a point.

A PLANE

Flat area between lines.
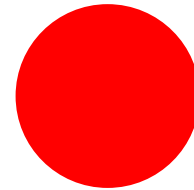
A plane may appear as a plane or as a line.
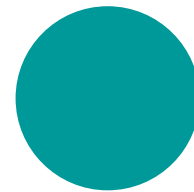
3D (Isometric) Drawing
A

Front View
2D (Orthographic) Drawing
B

A = Plane
B = Line

A = Plane
B = Line

A = Line
B = Point

Isometric Drawing
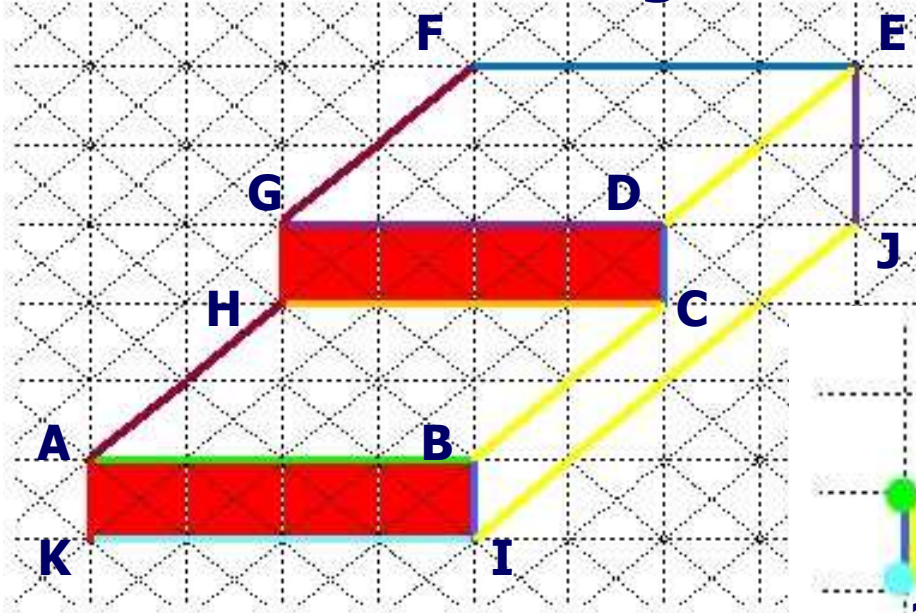
Drawing Portfolio (p 9)
3D vs 2D
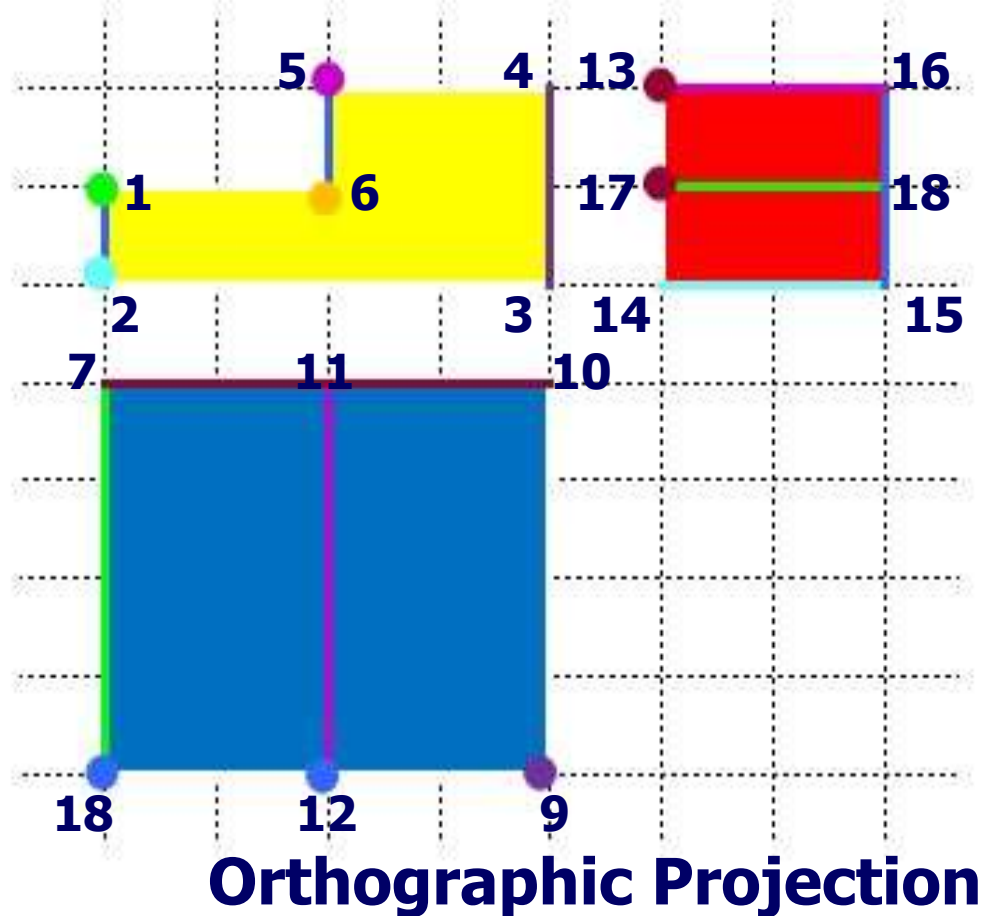
Complete the table on p 9 to show who sees a 2D plane and which children have a 3D view of the box.
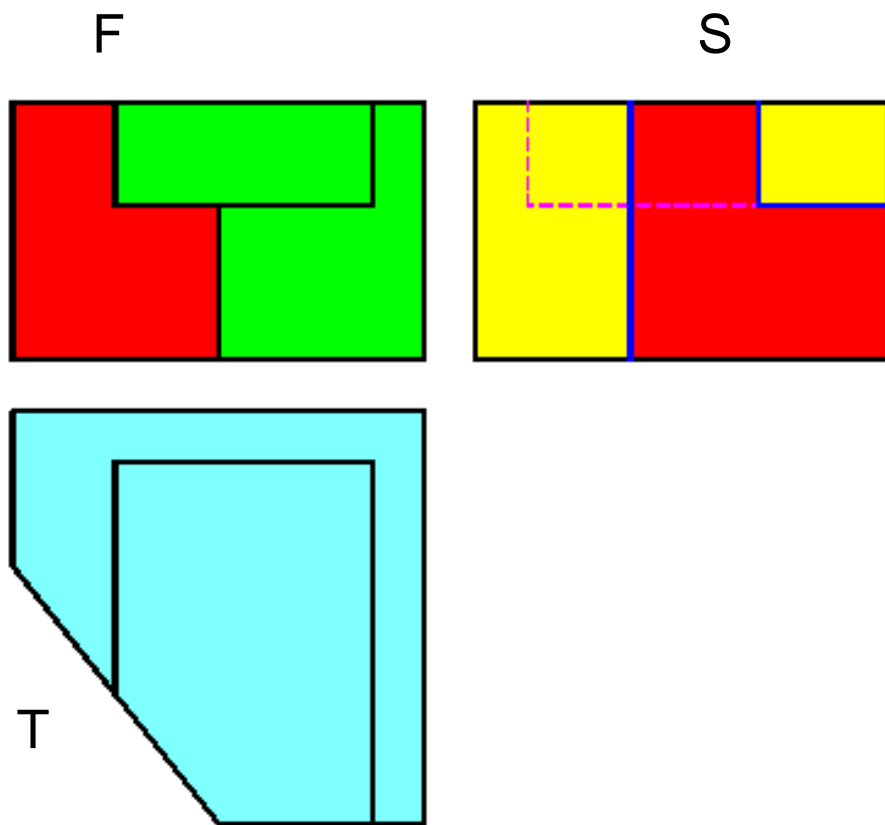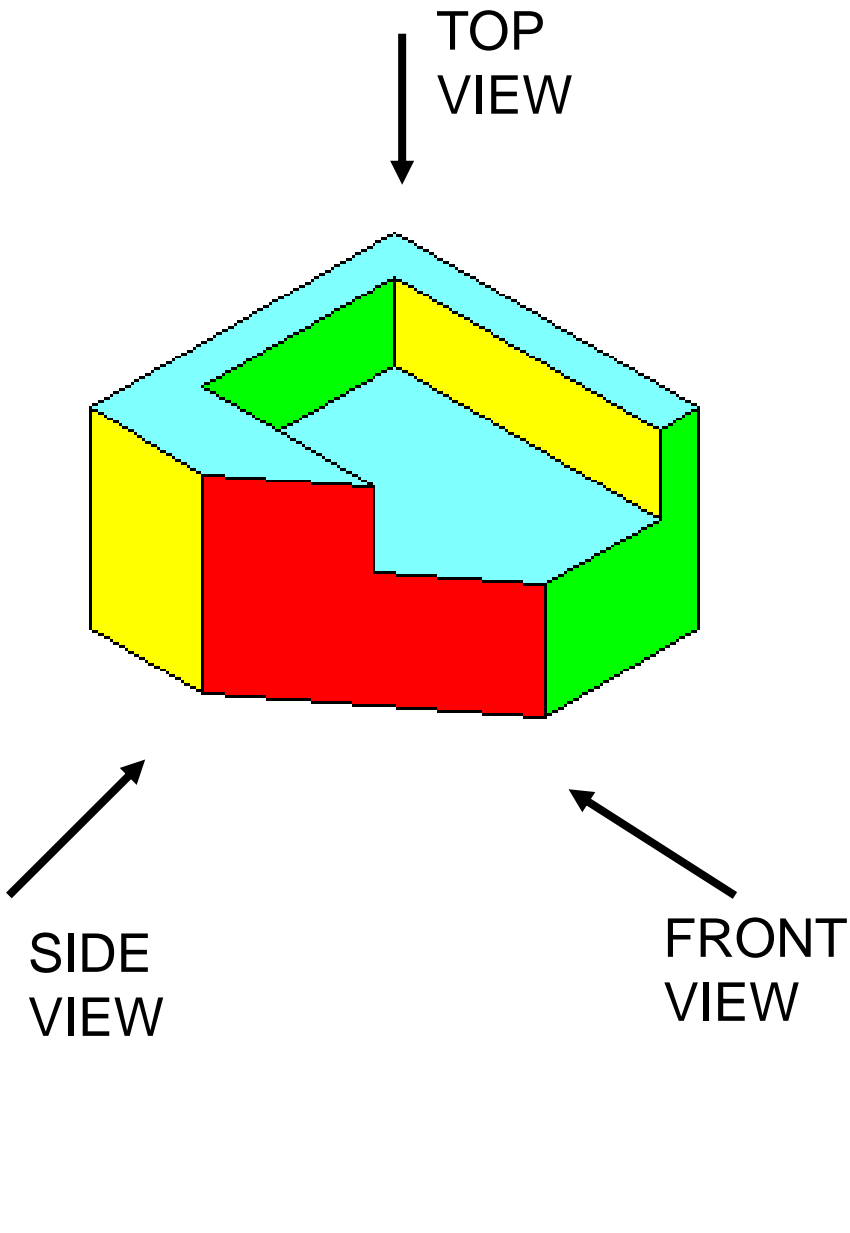
Study the diagrams on this page and use different colours to show the position of points, lines and planes on the diagrams on page 9.

Now look at the following diagrams (to identify the planes of the front view, top view and side view) **before** completing p10, 13, and 15 -16 .
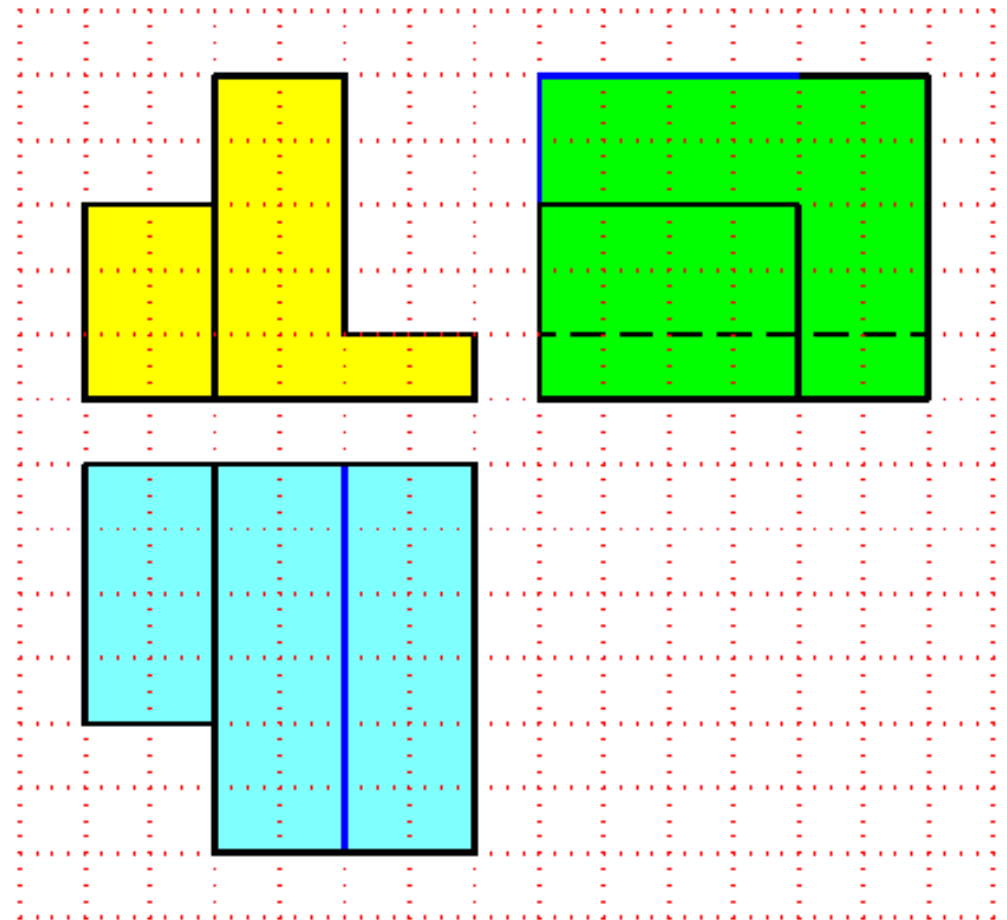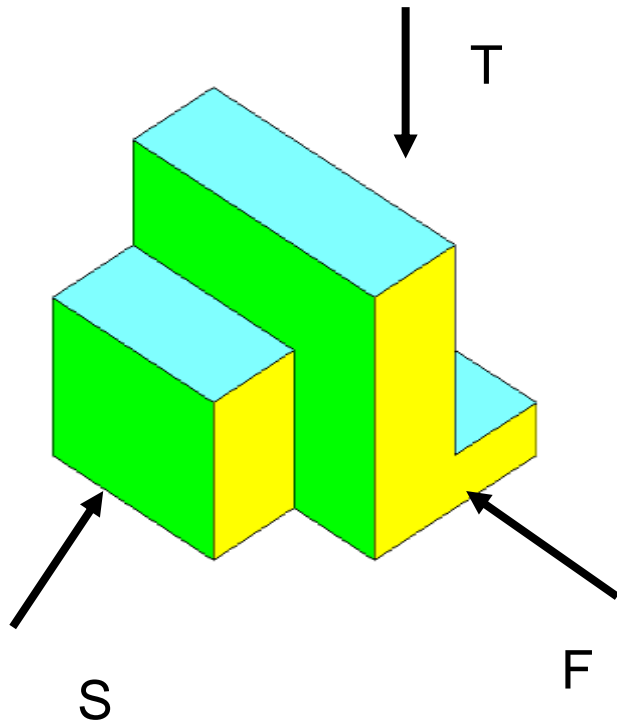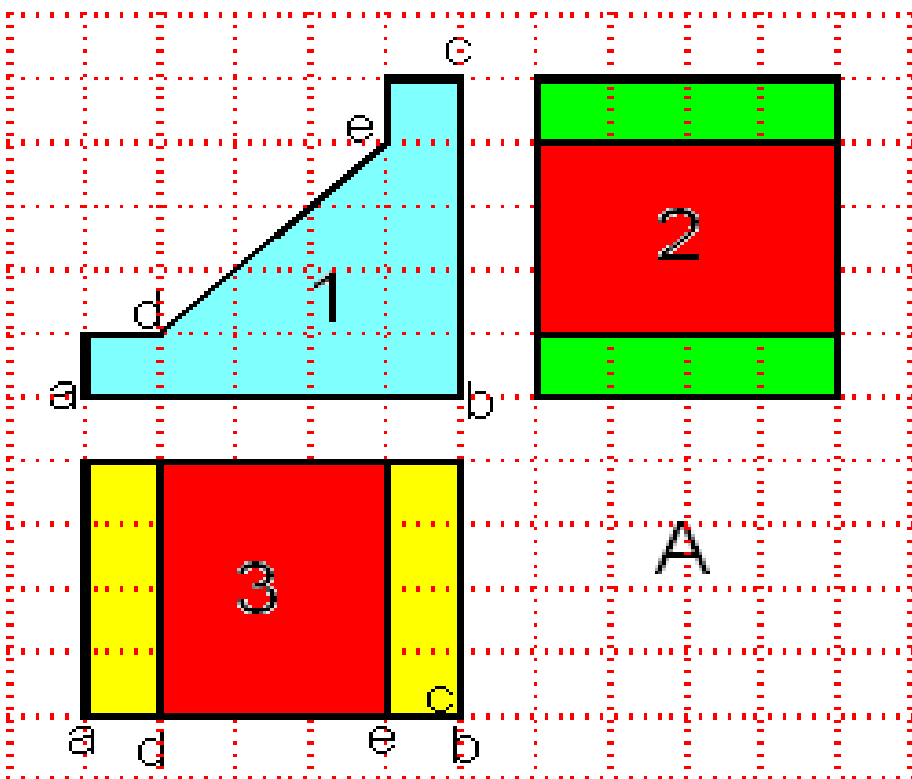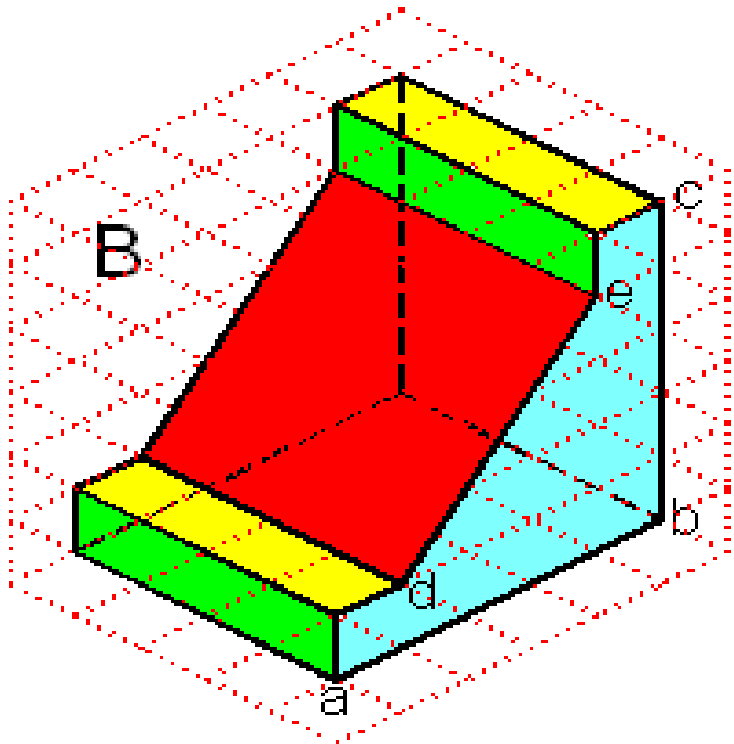
Orthographic Projection

FIRST ANGLE ORTHOGRAPHIC VIEWS

TOP
VIEW

SIDE
VIEW

FRONT
VIEW

F

S

T

FIRST ANGLE ORTHOGRAPHIC VIEWS

FIRST ANGLE ORTHOGRAPHIC VIEWS

FIRST ANGLE ORTHOGRAPHIC VIEWS

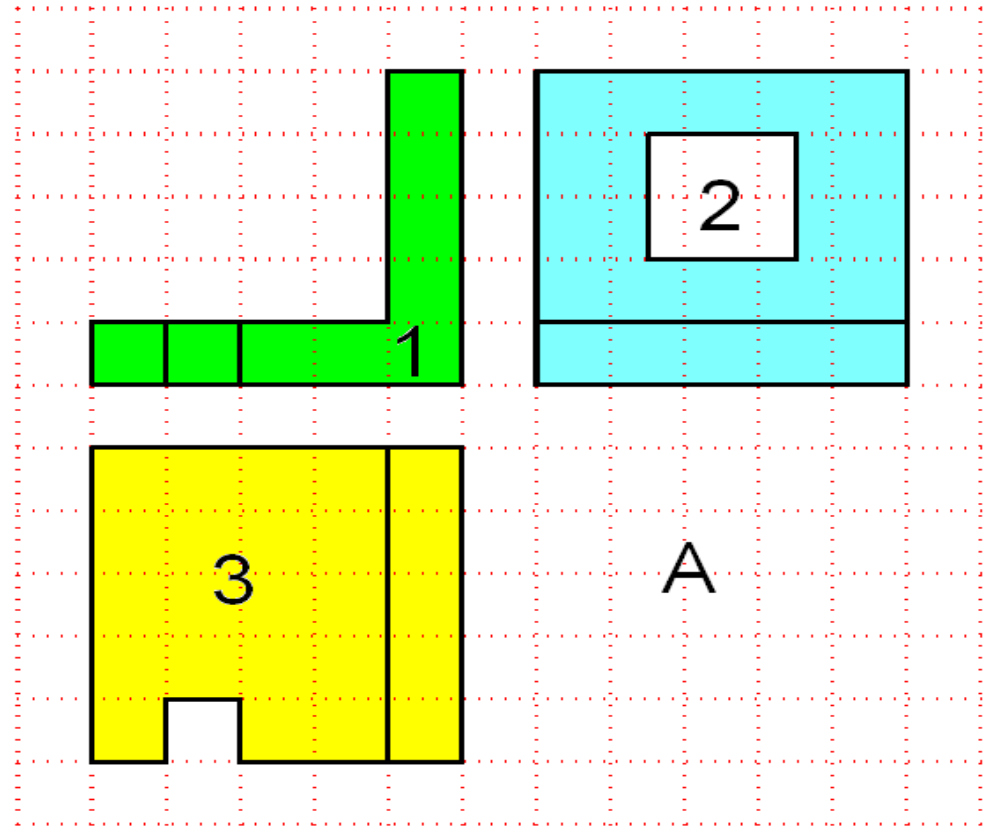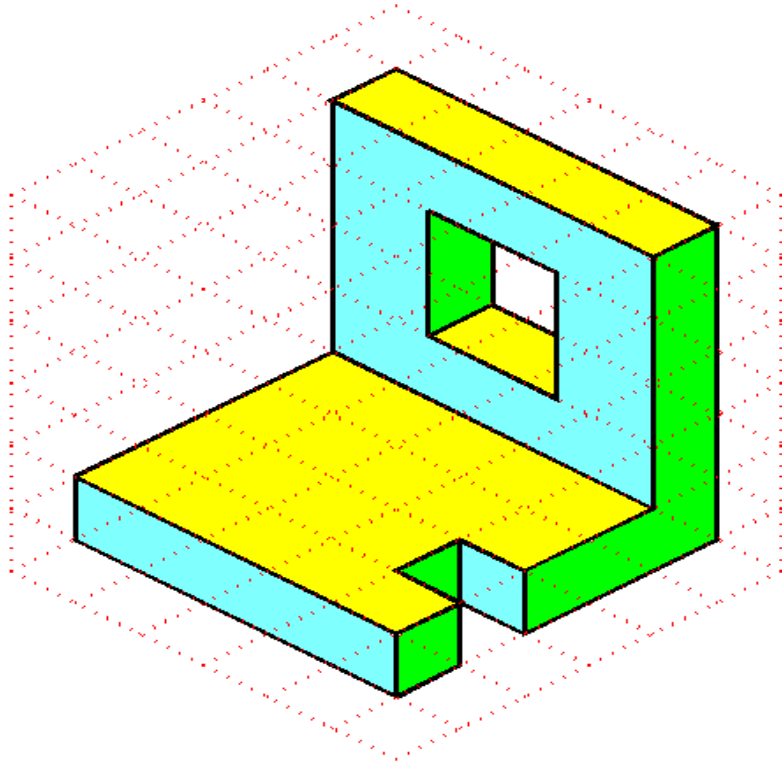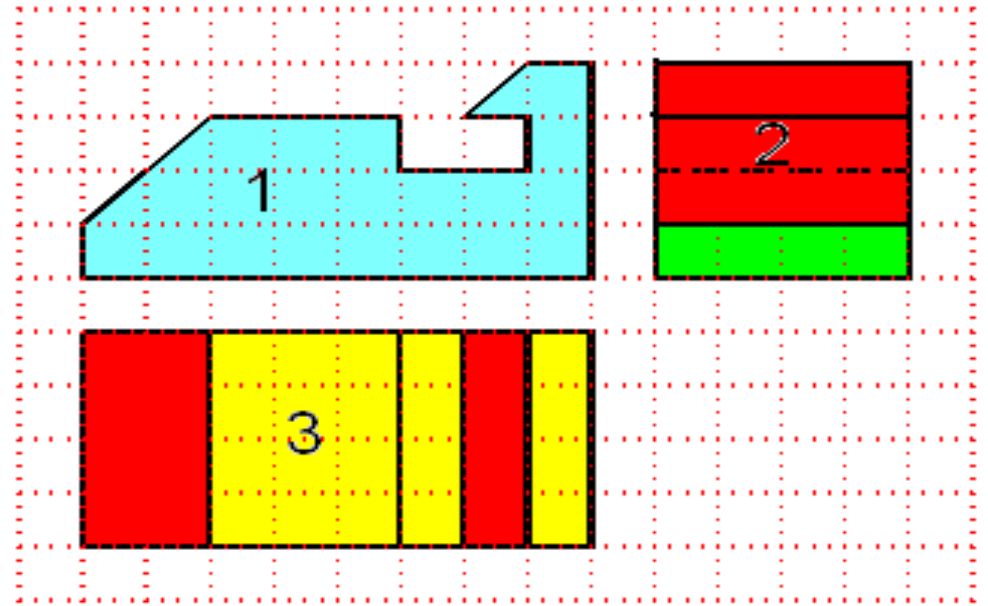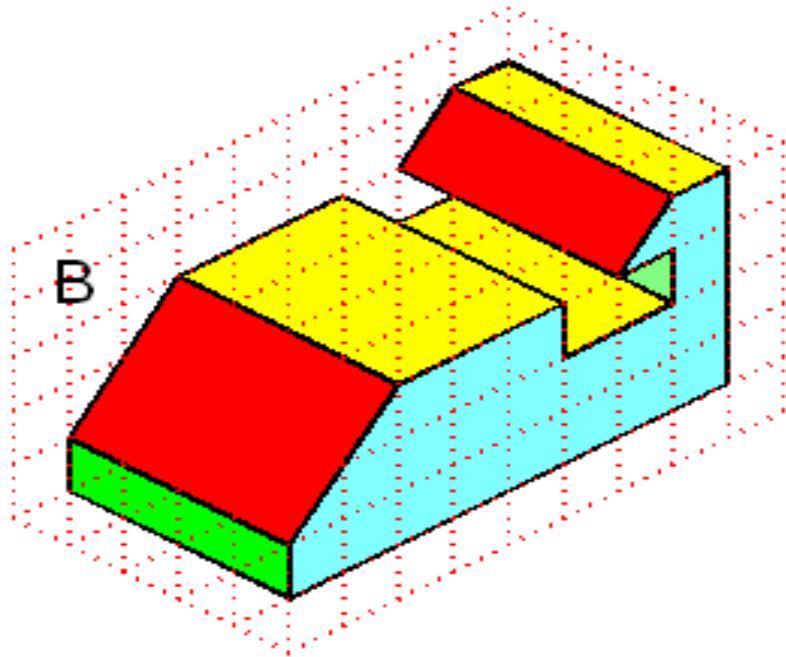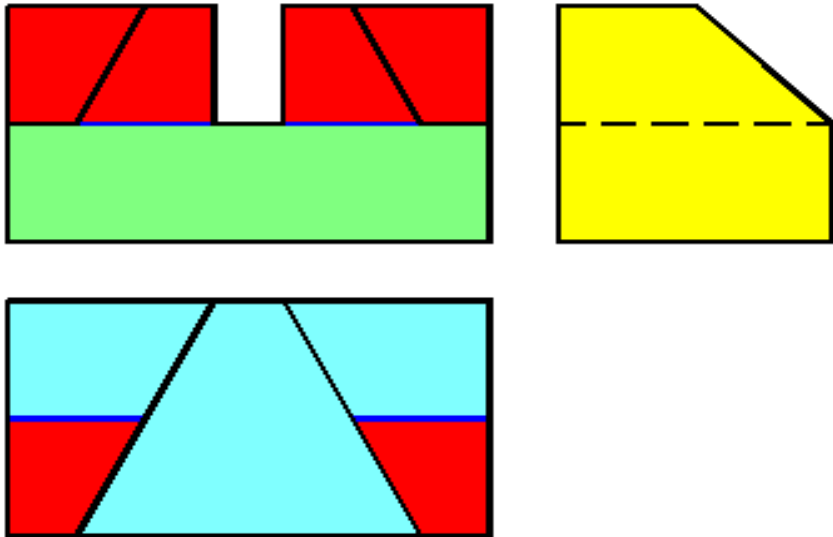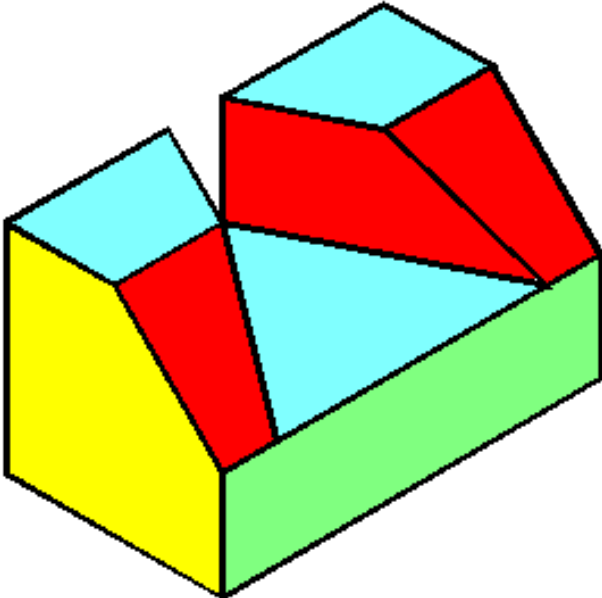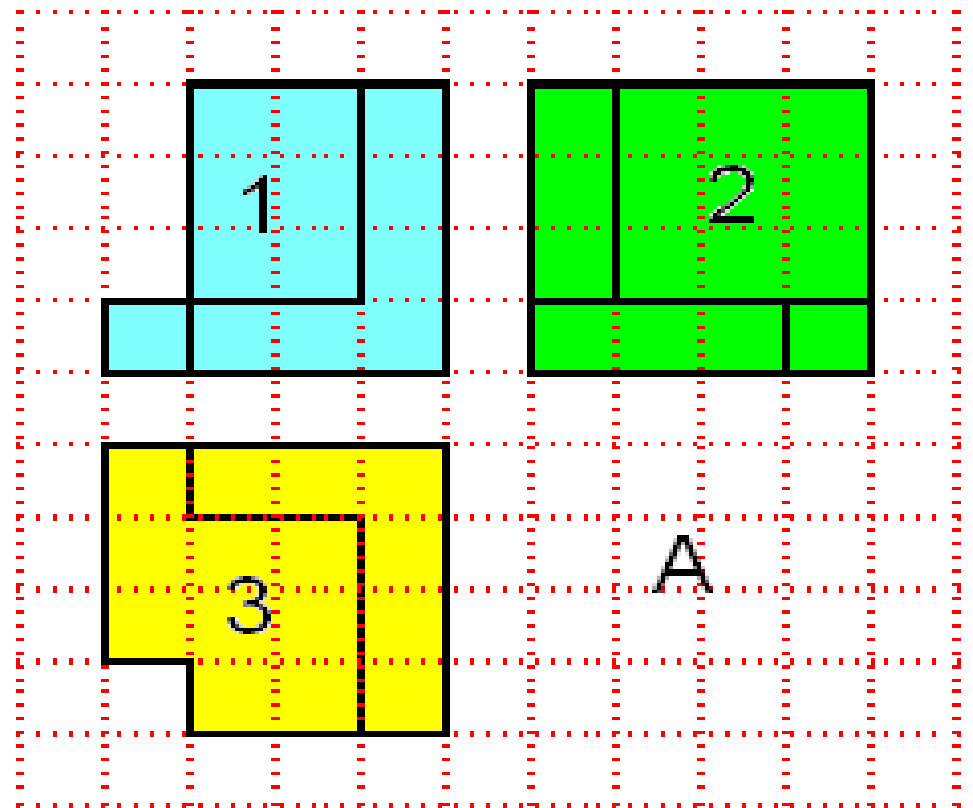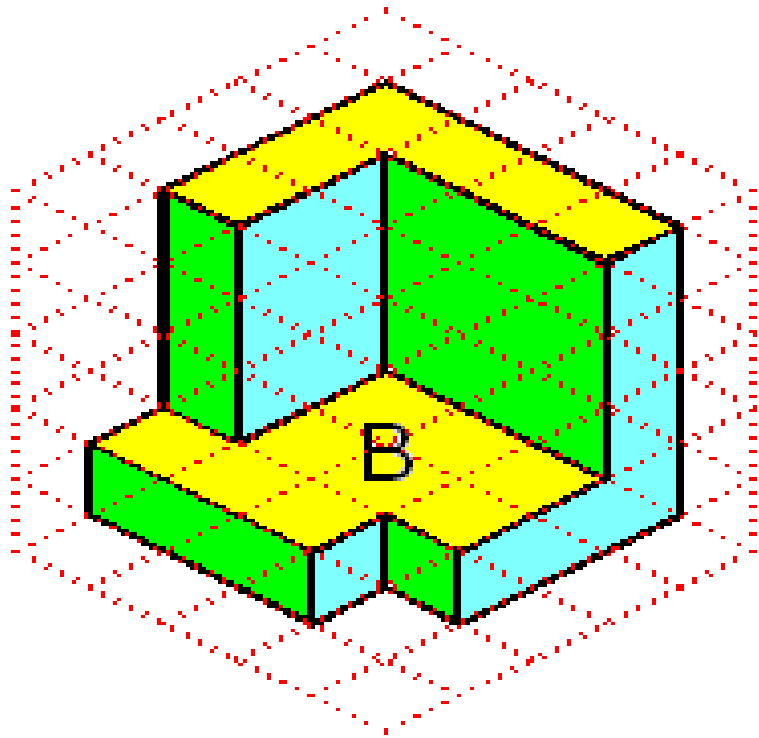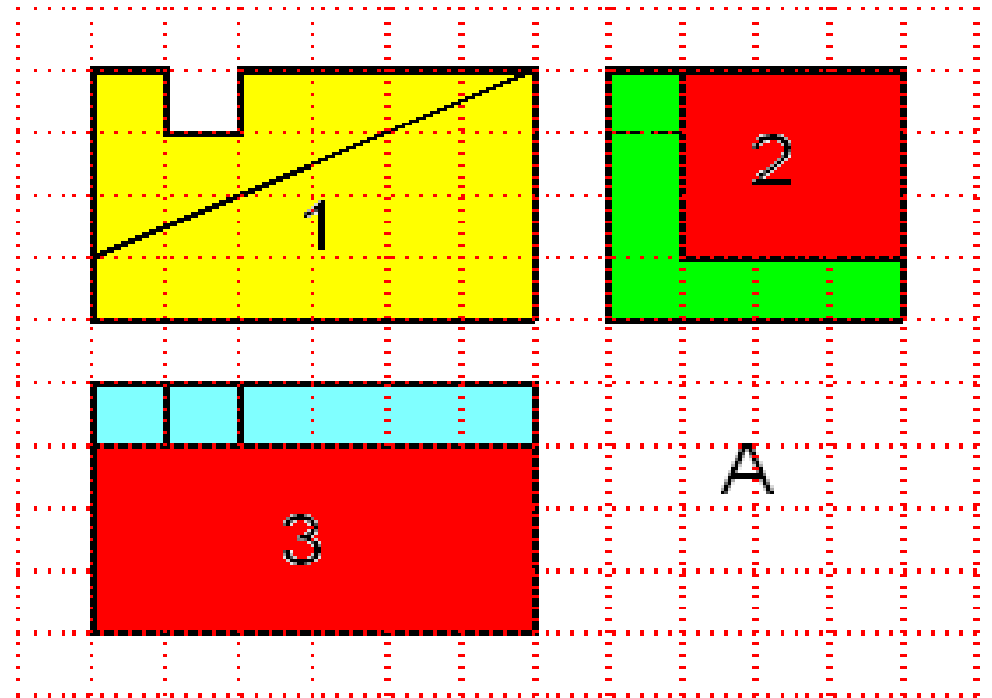# FIRST ANGLE ORTHOGRAPHIC VIEWS

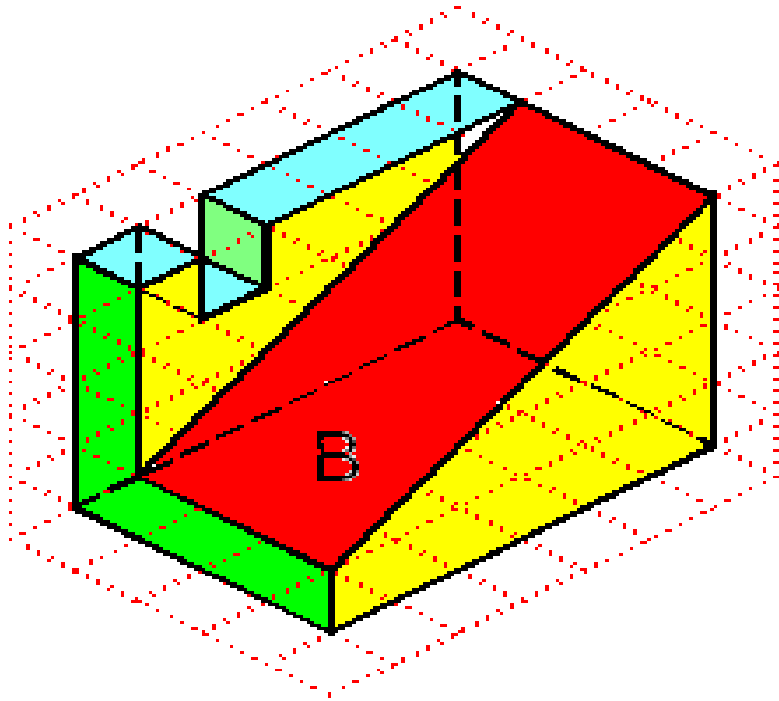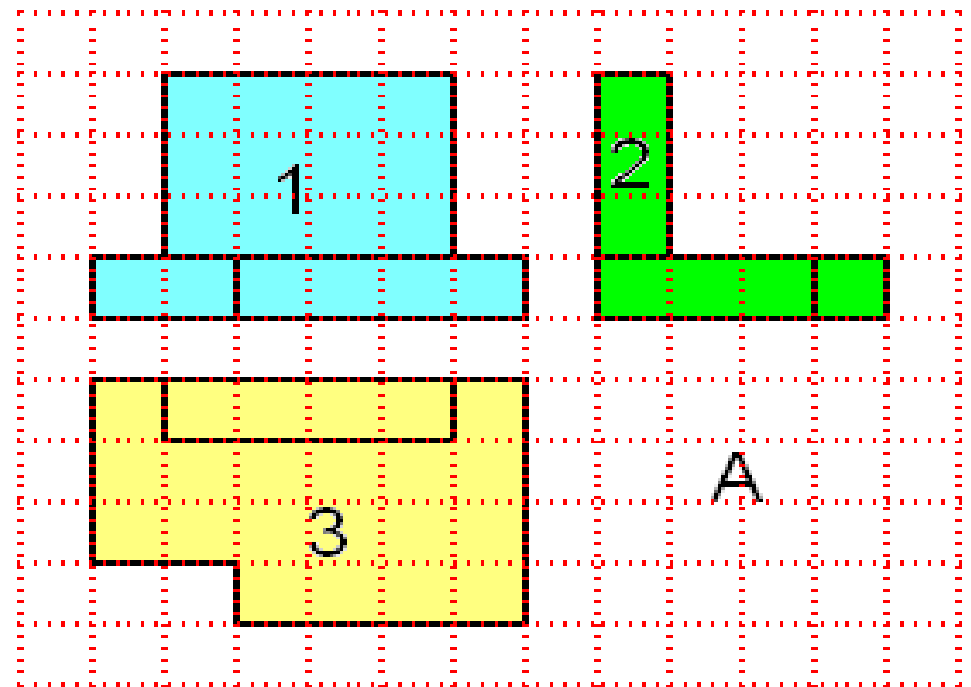# FIRST ANGLE ORTHOGRAPHIC VIEWS

FIRST ANGLE ORTHOGRAPHIC VIEWS

FIRST ANGLE ORTHOGRAPHIC VIEWS

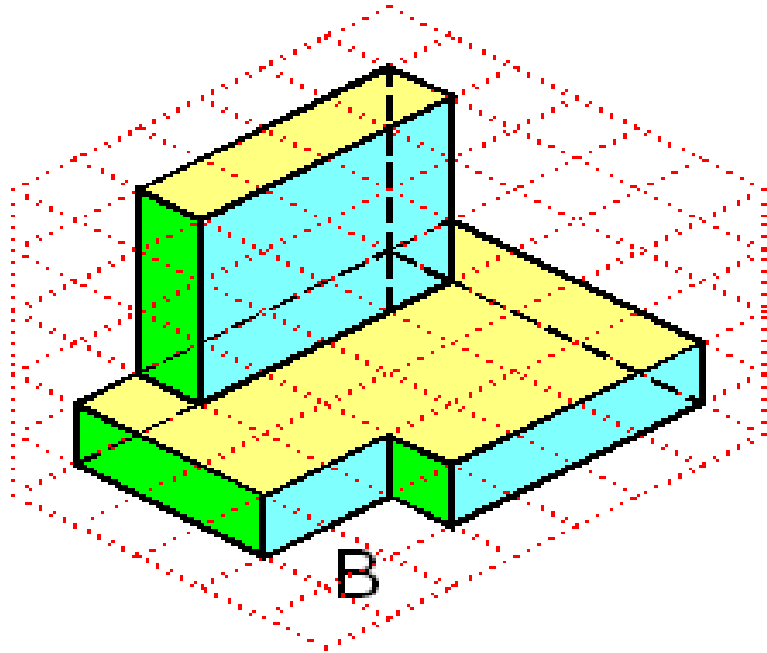# FIRST ANGLE ORTHOGRAPHIC VIEWS

FIRST ANGLE ORTHOGRAPHIC VIEWS

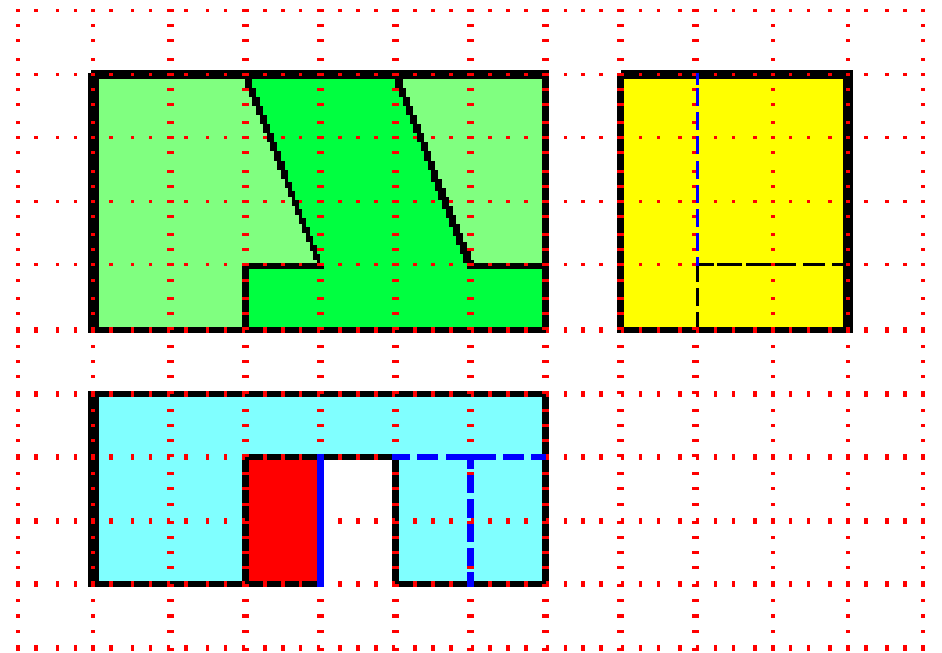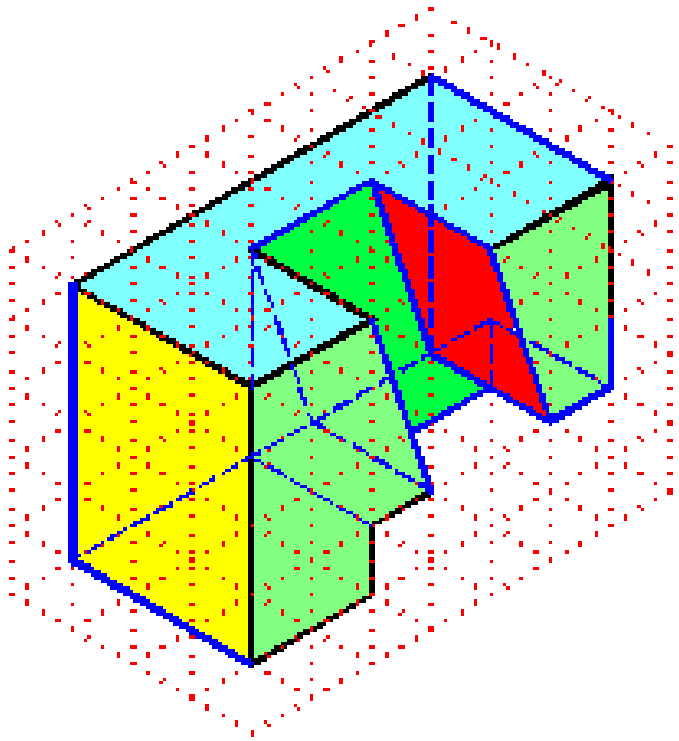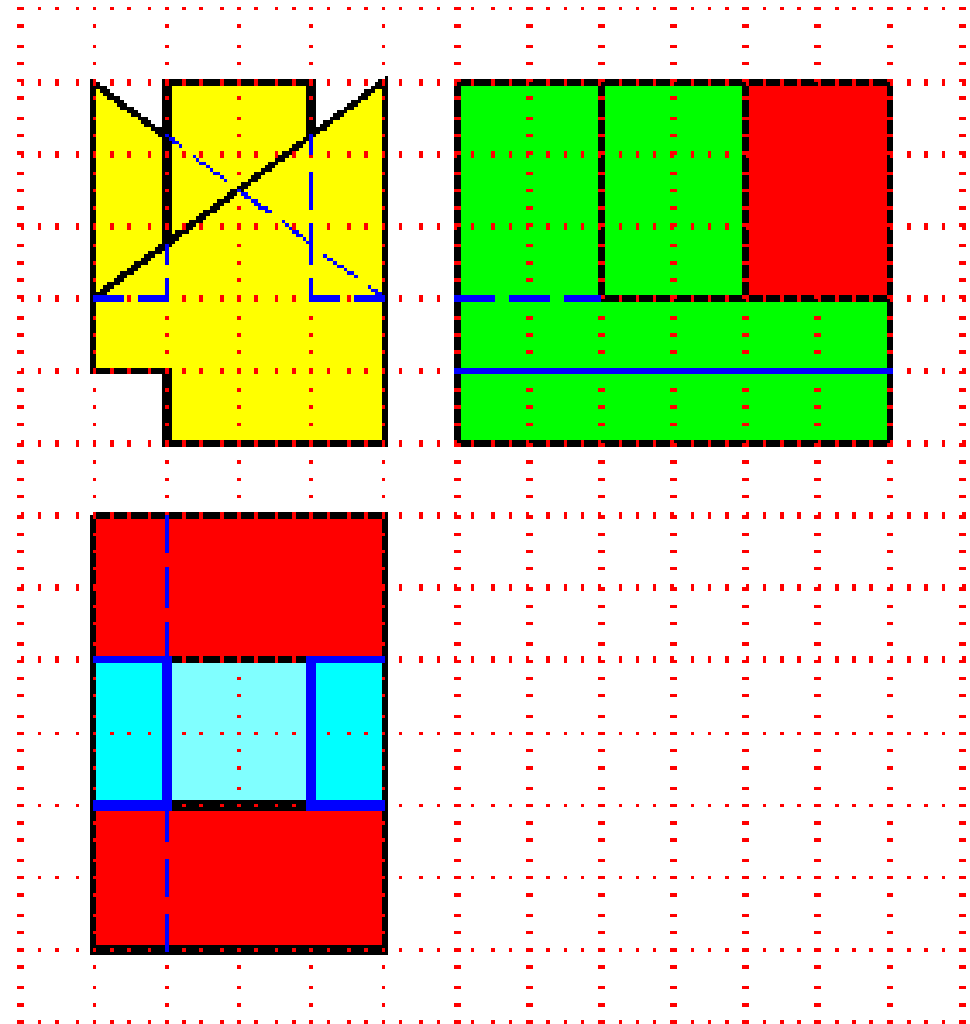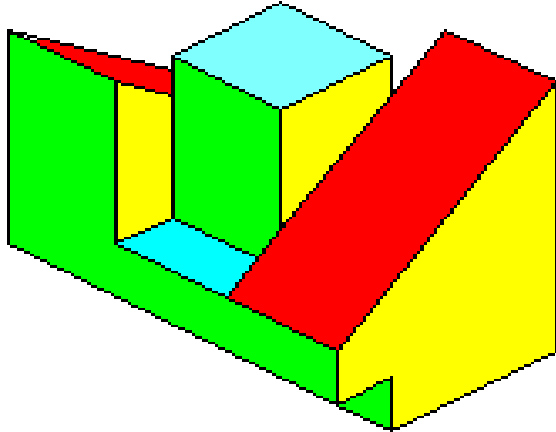# FIRST ANGLE ORTHOGRAPHIC VIEWS

FIRST ANGLE ORTHOGRAPHIC VIEWS