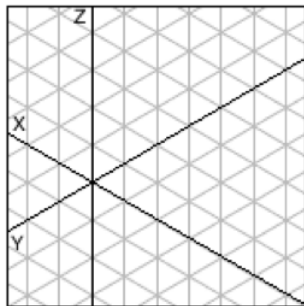


3D Shapes - Predicting OpenSCAD Output

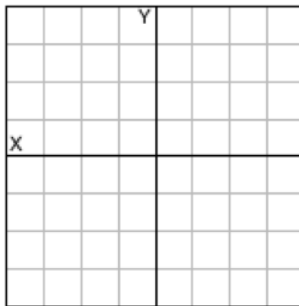
Predict the output produced by rendering each OpenSCAD code segment. Sketch the perspective view and three different orthogonal views (Top, Side, Front) for each 3D design.

After you sketch your guess, use OpenSCAD to preview the object.

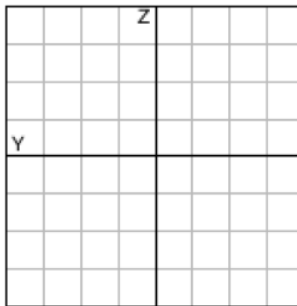
1) `cube([20, 10, 20]);`



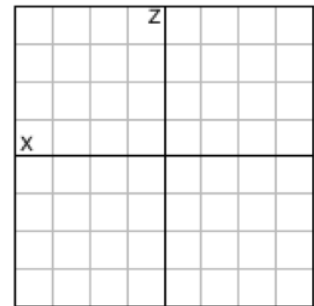
Perspective View



Orthogonal View - Top

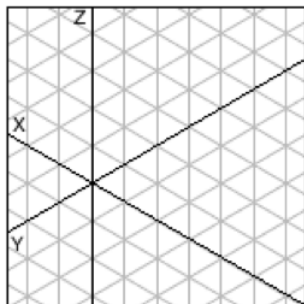


Orthogonal View - Side

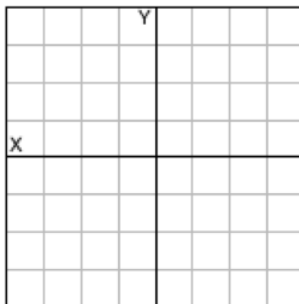


Orthogonal View - Front

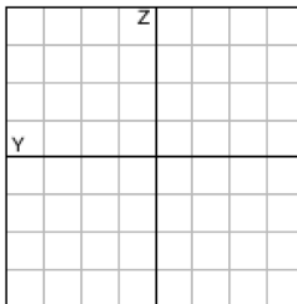
2) `cube([40, 10, 10]);`



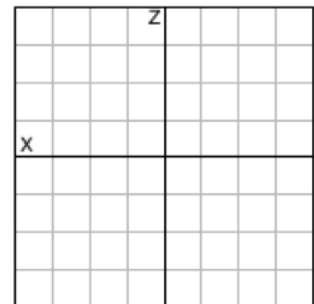
Perspective View



Orthogonal View - Top

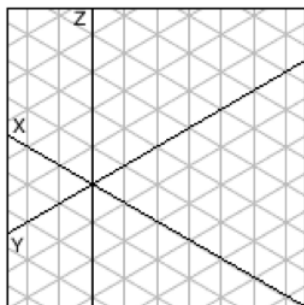


Orthogonal View - Side

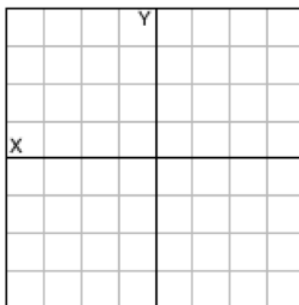


Orthogonal View - Front

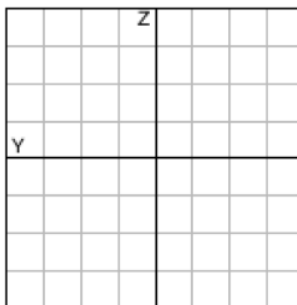
3) `cube([30,10,10]);`
`translate([10, 0, 10]) cube([10,10,10]);`



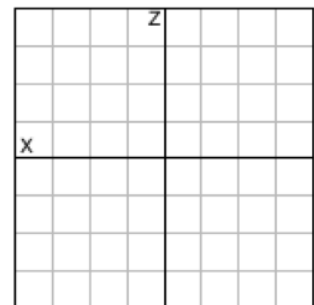
Perspective View



Orthogonal View - Top

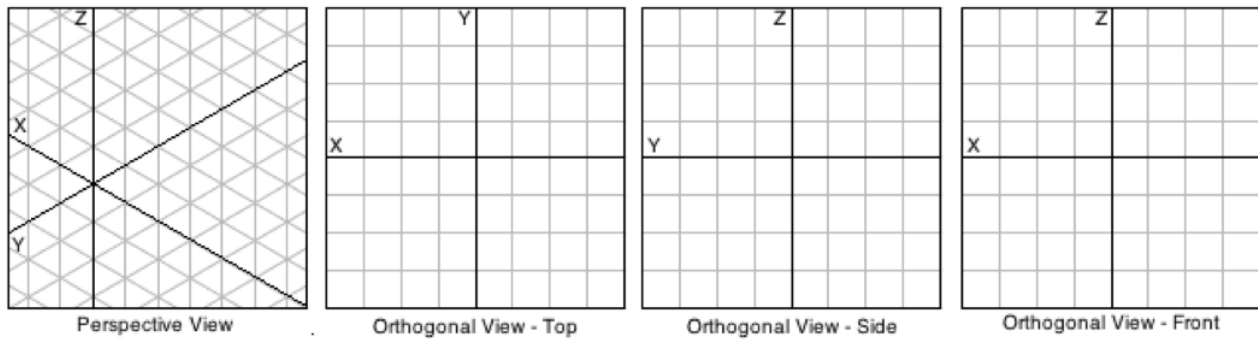


Orthogonal View - Side

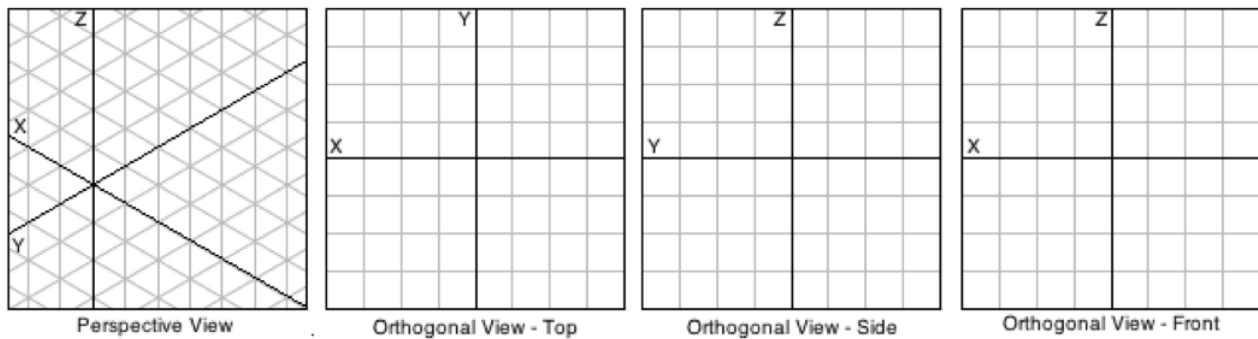


Orthogonal View - Front

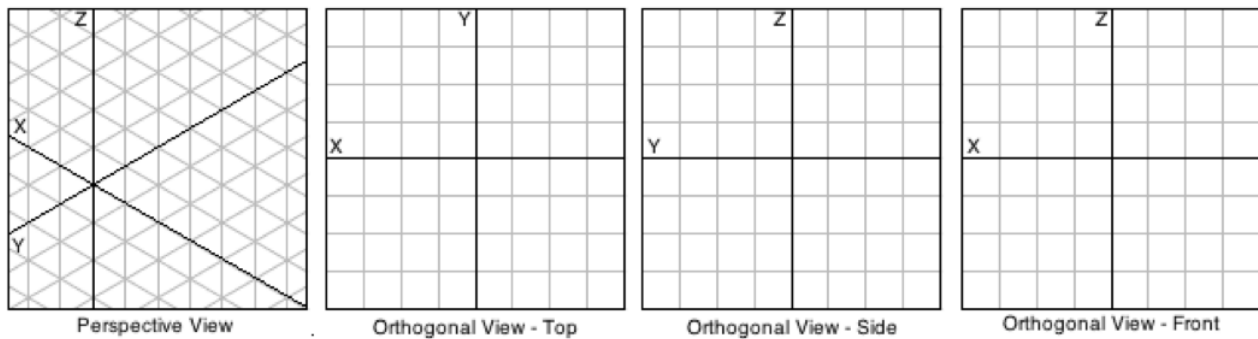
- 4) `cube([10, 10, 30]);`
`translate([10, 0, 0]) cube([10,10,10]);`



- 5) `cube([10,10,10]);`
`translate([10, 0, 0]) cube([10,10,30]);`



- 6) `cube([20,10,10]);`
`translate([10, 0, 10]) cube([20,10,10]);`



- 7) `translate([0, 0, 10]) cube([20,10,10]);`
`translate([10, 0, 0]) cube([20,10,10]);`

