


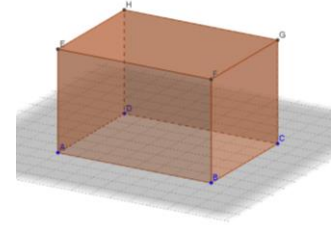







Task 2 Creating a Cuboid

1. Open a new window with the 3D Graphics view.
2. Use the Styling Bar of the 3D Graphics view to show the grid.
3. Use the Polygon tool  to draw a 8×6 rectangle on the base plane using the grid.
4. Use the Extrude to Prism tool  in the  toolbox. Drag up the rectangle on the base plane 5 units to create a $8 \times 6 \times 5$ cuboid. Hide the axes.



Task 3 Two Largest Cubes in a Box

Problem: Two identical cubes are put inside a box of dimensions $8\text{cm} \times 6\text{cm} \times 5\text{cm}$. What is the largest possible volume of each cube?

1. Make the cuboid created in Task 2 transparent.
2. Use the Cube tool  in the  toolbox to create a cube IJKLMNPO. Change the colours of I and J to red.
3. Use the Cube tool , click on K and J respectively to create another identical cube.
4. In the Algebra view, right click on “Points” to hide the labels of the points.
5. Drag the red points to investigate the largest possible size of the cubes inside the box.

