

C0-3

## FUSION – 360

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### 1. Draw a Cuboid with 100mm Dimension Using Fusion 360

#### **PROCEDURE:**

Step 1: Create a New Design

Open Fusion 360 and create a new design.

Step 2: Create a Sketch

Click on the "Create" tab and select "Sketch".

Choose a plane to sketch on (e.g., Front Plane).

Step 3: Draw a Square

Use the "Rectangle" tool to draw a square of 100mm x 100mm.

You can use the "Dimension" tool to accurately set the size.

Step 4: Extrude the Sketch

Click on the "Create" tab and select "Extrude".

Select the square sketch.

Set the "Distance" to 100mm.

Click "OK" to extrude the shape.

#### Step 5: (Optional) Add Features

You can further modify the cuboid by adding features like holes, fillets, or chamfers. Use the appropriate tools under the "Create" tab.

#### **Additional Tips:**

**Units:** Ensure you're using the correct units (millimeters in this case) in your design.

**Constraints:** Use constraints to define relationships between sketch entities and ensure accurate dimensions.

**Origin:** Position your sketch relative to the origin to maintain precision.

**Views:** Use different views (front, top, side) to visualize the cuboid from various angles.

**History:** Fusion 360's history-based modeling allows you to easily modify your design by editing previous steps.

By following these steps, you should be able to create a 100mm cuboid in Fusion 360.

## OUTPUT:



