

Fusion 360 Academy

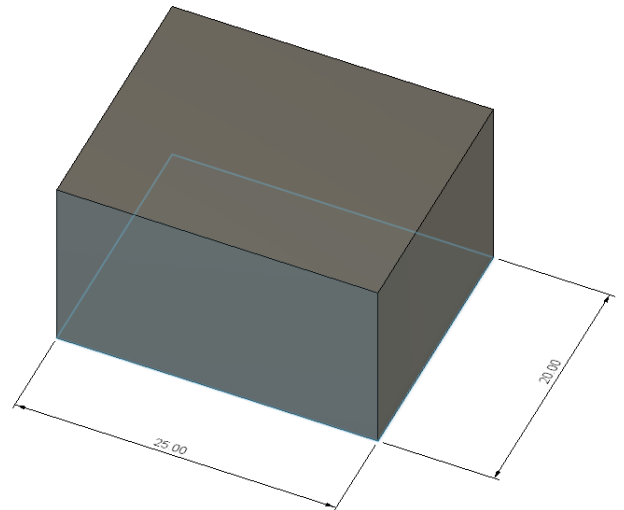
Week 1

Challenge 1

Make a cuboid of given dimensions: **15 x 20 x 25mm**

Tips:

- Start by reading the **sketching section** of the handbook (pages 2-3) to learn how to draw the **rectangle**
- Then read how to **extrude** (page 4) to learn how to make it 3D

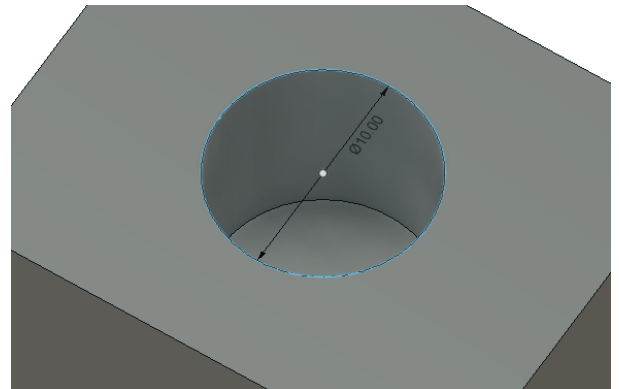


Challenge 2

Cut a circle **10mm** in diameter and **10mm** deep through the center of the cuboid

Tips:

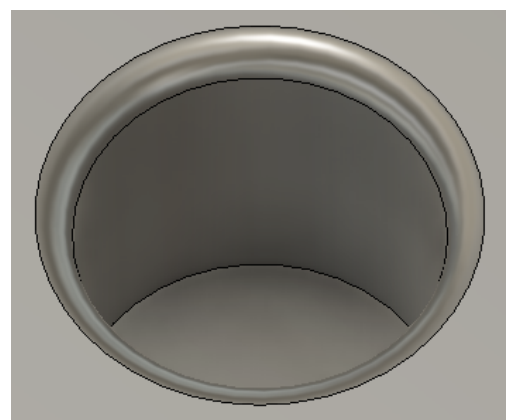
- Draw a new sketch on top of the cuboid and use lines to find the center
- Read **cutting** (page 5) to cut out your circle



Challenge 3

Smooth the edges of the hole **1mm**

Tip: Select the circle edge and apply the **filleting tool** (page 6)

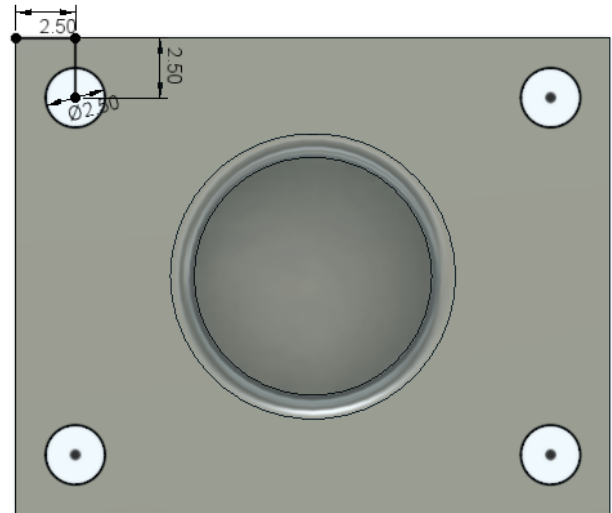


Challenge 4

Cut 4 holes **2.5mm** in diameter and **2.5mm** from both edges around the cuboid.

Tips:

- Start by drawing lines to find the point 2.5mm from the edges & draw your circle
- Use the **rectangular pattern** tool (patterns on page 9) to create the layout
- Select all the faces and cut all the way through the object



Challenge 5

Try remaking this exact same object in the least possible steps.

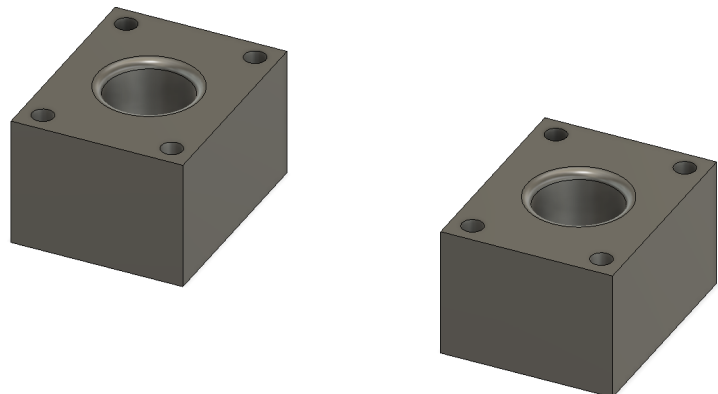
Tips:

- You could all the shapes required in a single sketch!
- Read **managing your timeline** (page 7-8) to delete & modify steps to make it as simple as possible

Challenge 6

Mirror the object you made.

Tip: Read **mirroring objects** (page 11)



Challenge 7

Measure the distance between your mirrored objects

Tip: Read **measure** (page 11)

