CSWA 0

Draw the following object and utilize the following parameters:
Unit System: MMGS
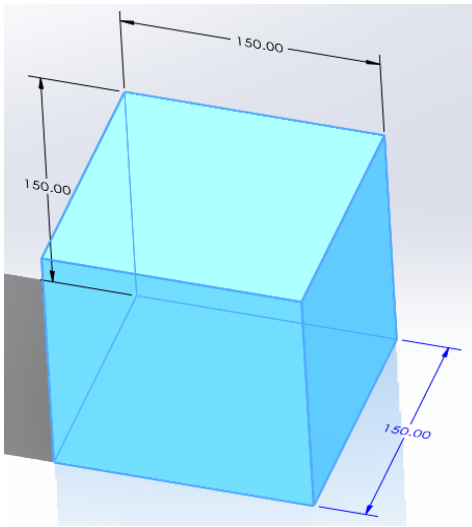Decimal places: 2
Part Origin: Arbitrary
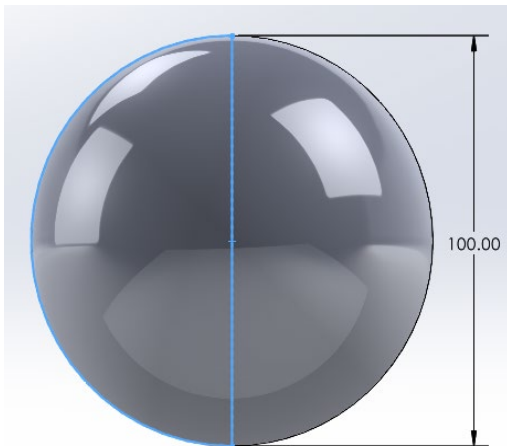
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0A - Cube
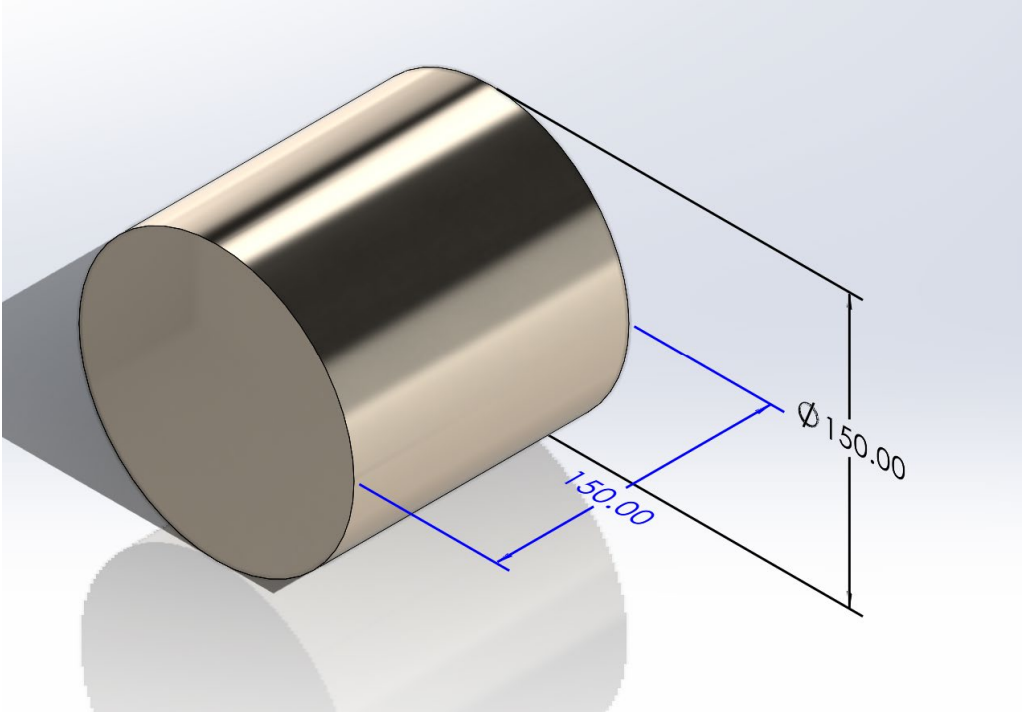**Cube Material**: Copper - Mass = 30,037.50 grams

0B - Sphere
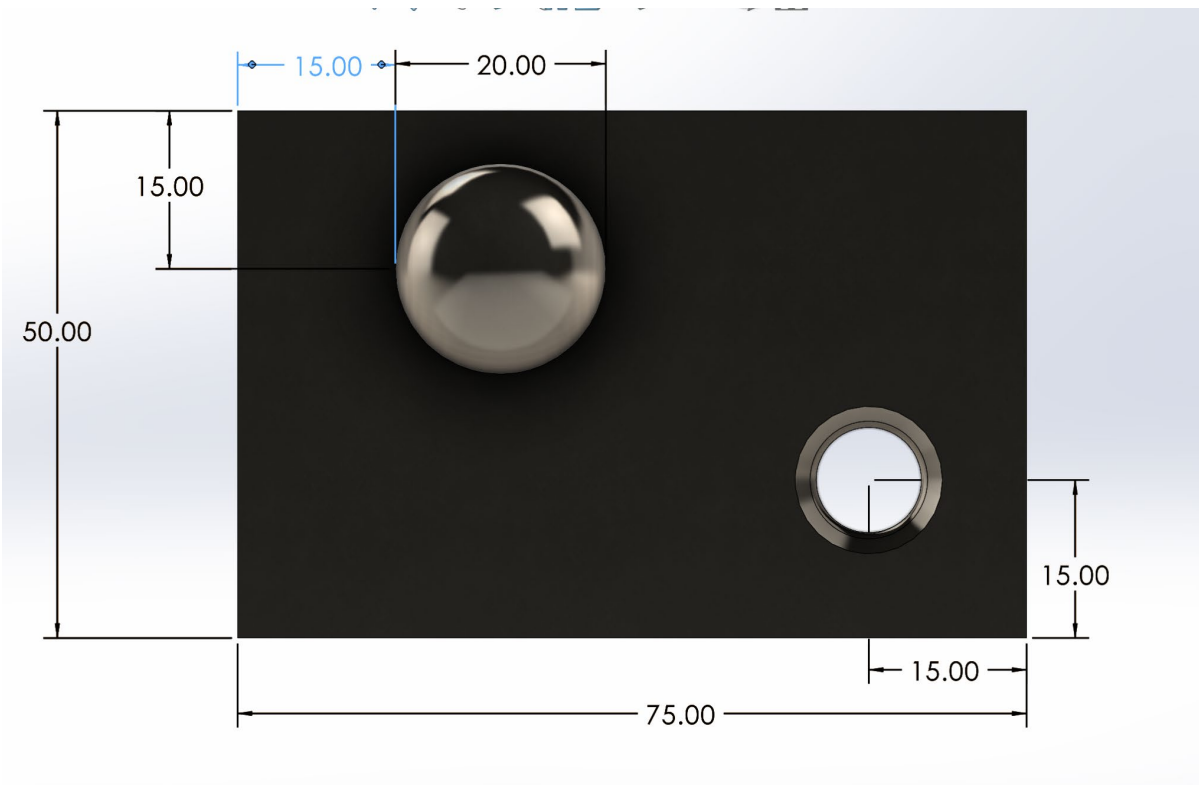**Sphere Material**: Rubber - Mass = 523.60 grams

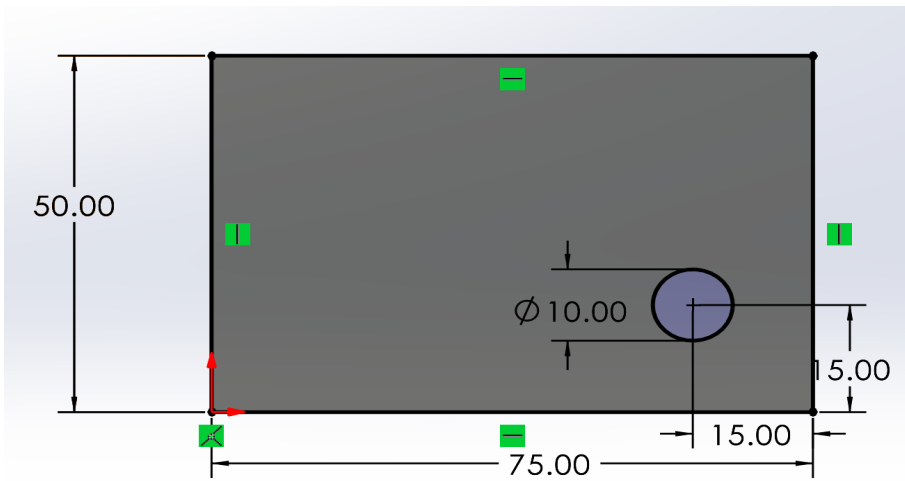## 0C - Cylinder
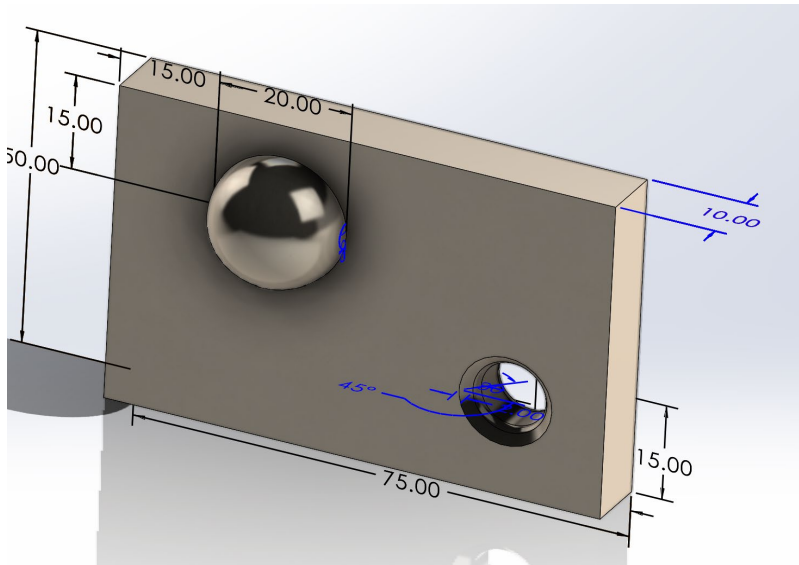**Cylinder Material**: Nickel - Mass = 22,531.11 grams

0D - Combo
Combo Object Material: ABS - Mass = 39.53 grams

VIEW 1

50.00
Ø 10.00
15.00
15.00
75.00

Extrude

15.00
15.00
20.00
50.00
10.00
45°
15.00
75.00

BACK
FILLET 2mm

Radius: 2mm

5.00
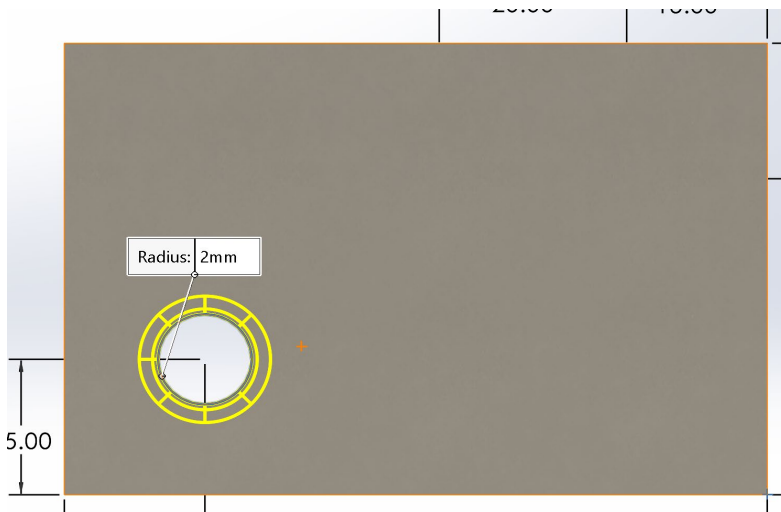
Glass - Part 0E

Material: Glass
Mass = 175.88 g

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Isometric View

Front View

100.00

5.00

25.00

Front View - Bottom of Cup

R5.00
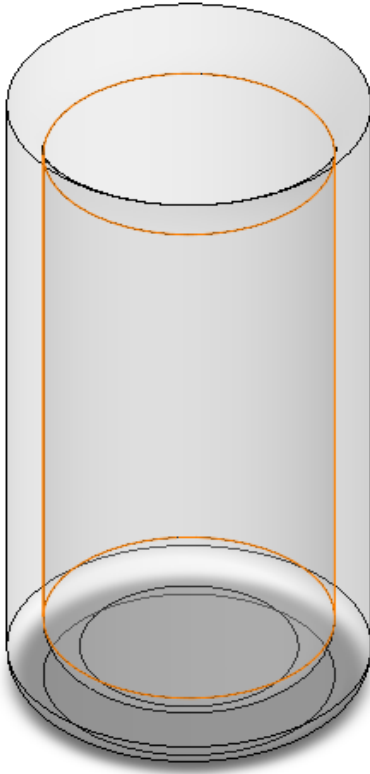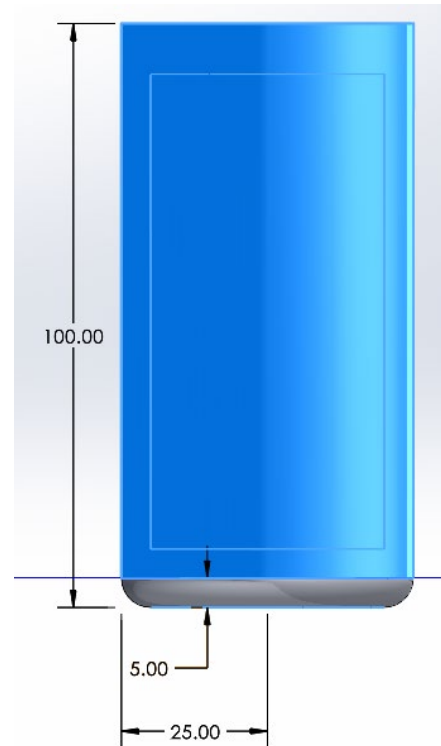
Front View - Top of Cup
Chamfer 10mm, 45 deg
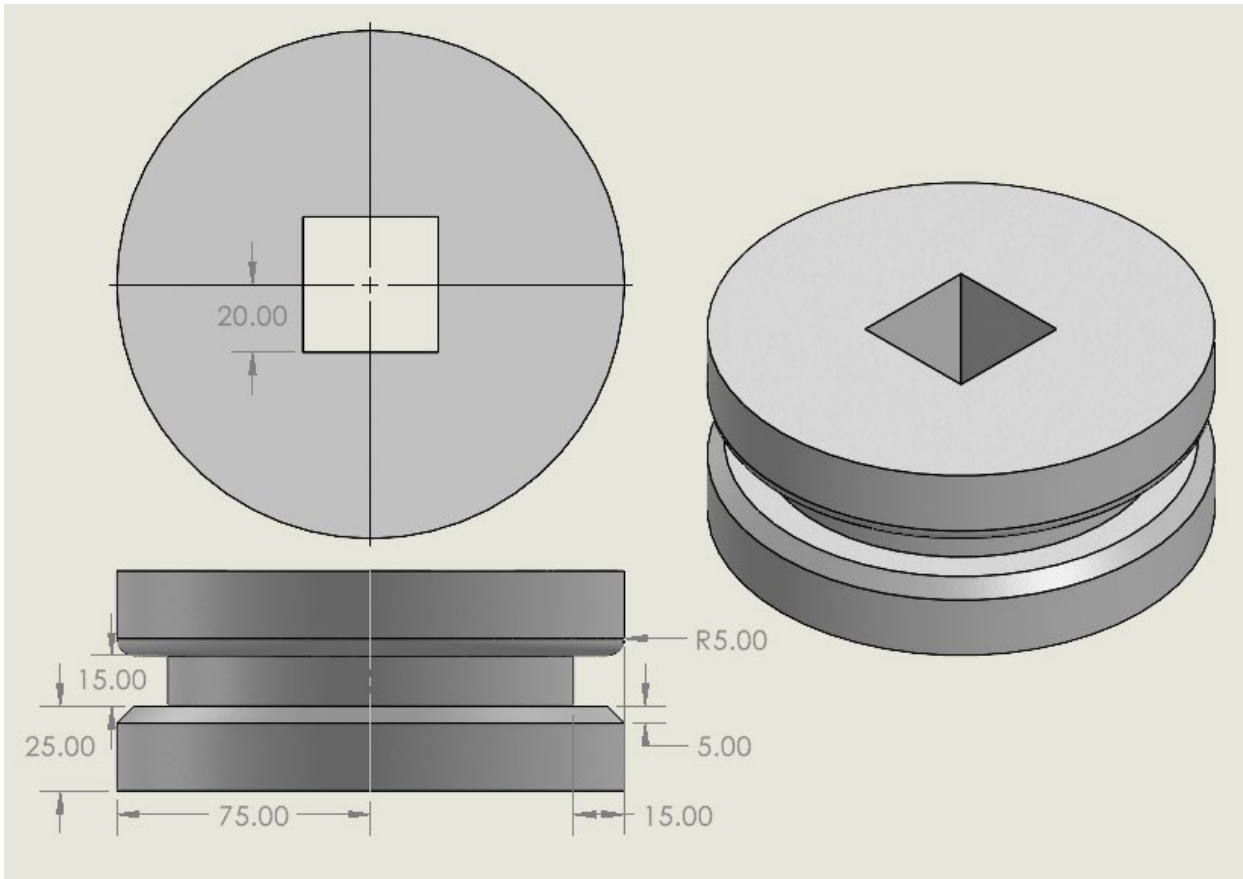

R10.00
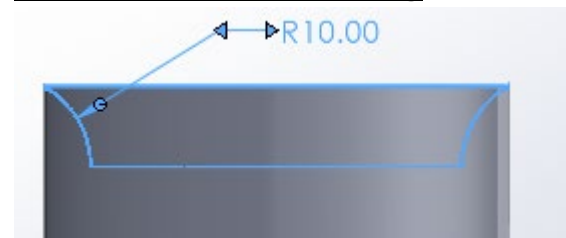
Front View - Bottom of Cup - Inside
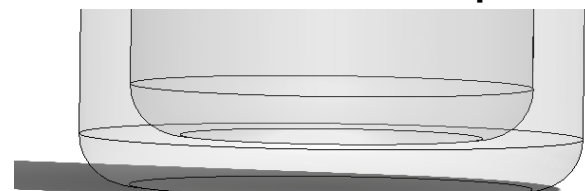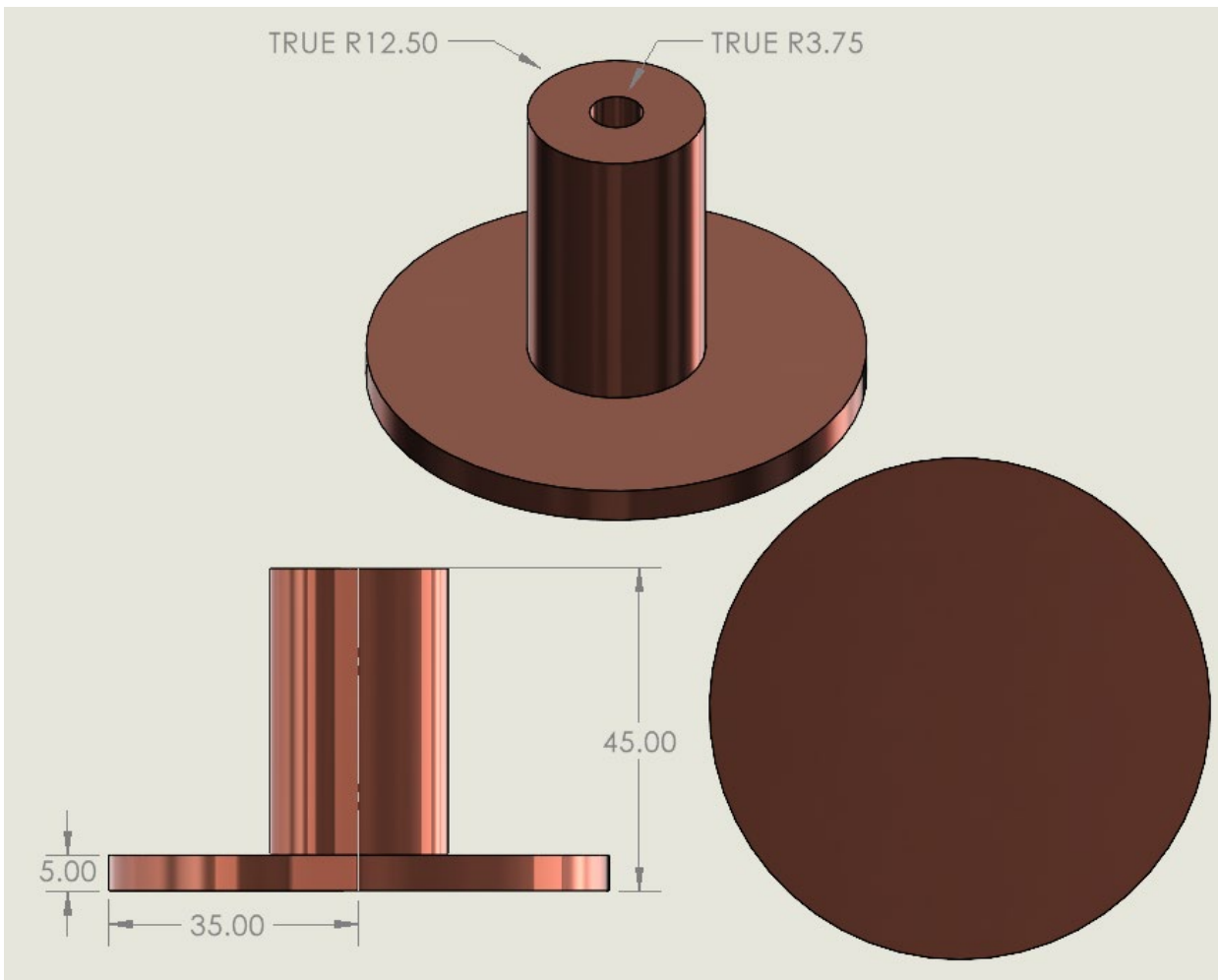
Part 0F-1

Part 0F-2

- Change base radius from 35mm -> 27.5mm
- Change total height from 45mm -> 35.25mm
- Change hole cut radius from 3.75mm to 10mm in diameter
- Change Base thickness from 5mm to 7.843mm

New Mass: 266.42 grams

Part 0G-1

Part 0G-2

- Reduce total part height by 12mm
- Change these fillet radius to 7.5mm
- Edit the Square cut to have sides of 30mm
- Increase outer-disks radius by 5mm
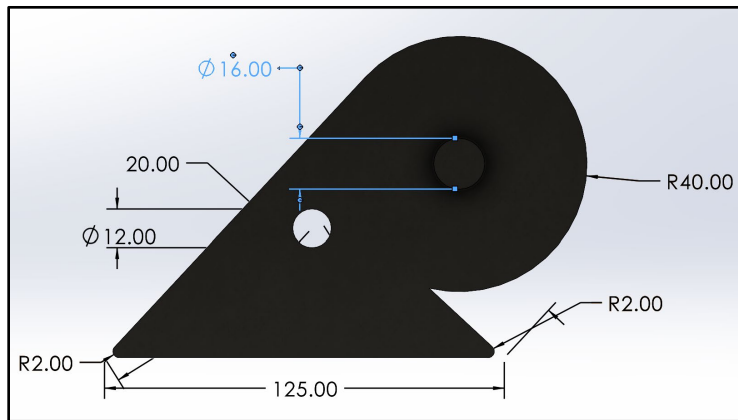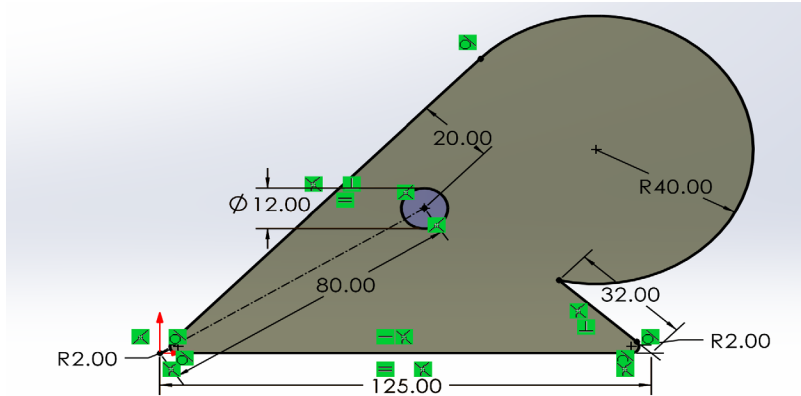- Change inner-disk height to 16.25mm
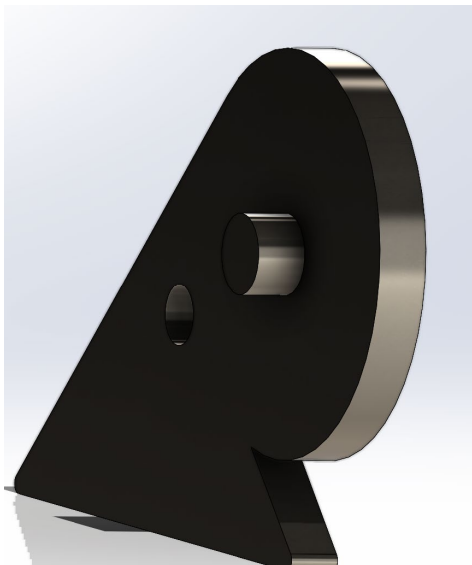
New Mass: 880.15 grams

Part 0H

Front View

20.00

Ø 12.00

R40.00

80.00

32.00

R2.00

R2.00

125.00

Ø 16.00

20.00

R40.00

Ø 12.00

R2.00

R2.00

125.00

Each extruded feature is extruded 10 mm

Part 0J

View 1
Extrude = 43 mm