



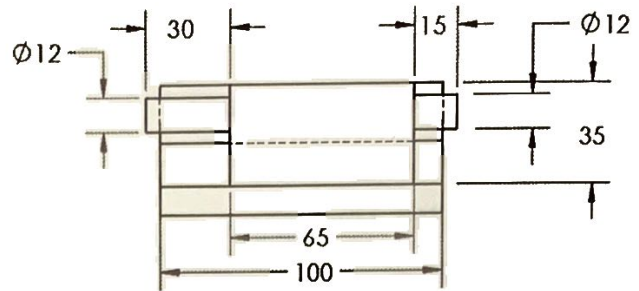
**Calculate the mass:**

A = 610.92 grams

B = 509.92 grams

C = 701.93 grams

D = 619.34 grams



Right view

**Calculate the volume:**

A = 188860.93 cubic millimeters

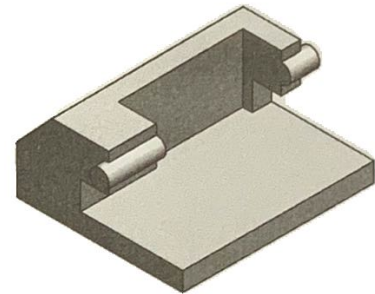
B = 206660.93 cubic millimeters

C = 198880.65 cubic millimeters

D = 230021.67 cubic millimeters

**Modify the model:**

- Modify material to Plain Carbon Steel.
- Modify TYP Hole diameter from TYP 12 to TYP 10.



Enter the mass:

**1465.70**

Enter the volume:

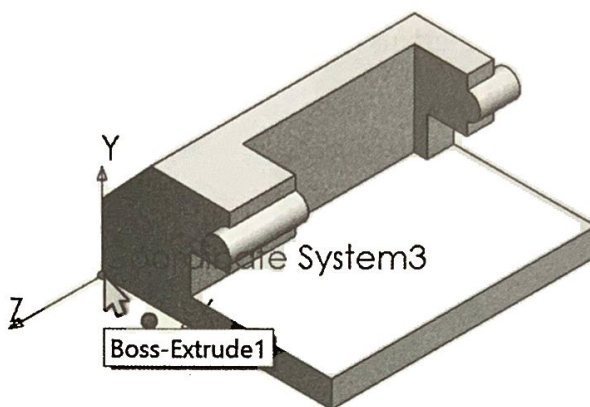
**187910.60**

**Create a new coordinate system.**

Center a new coordinate system with the provided illustration. The new coordinate system location is at the front left bottom point (vertex) of the model.

**Enter the Center of Mass:**

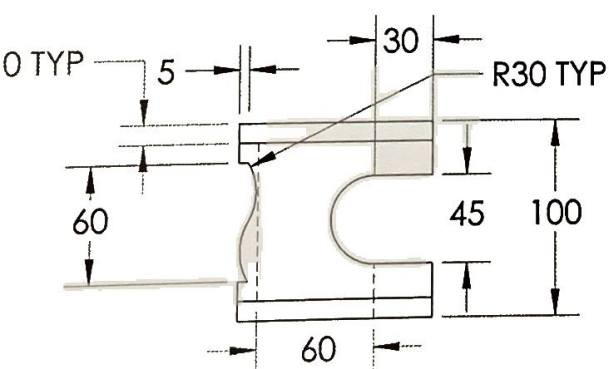
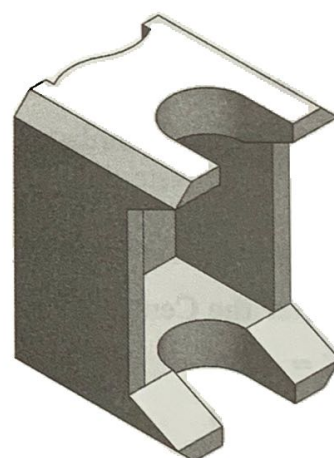
**X = 31.39**  
**Y = 16.55**  
**Z = -48.63**



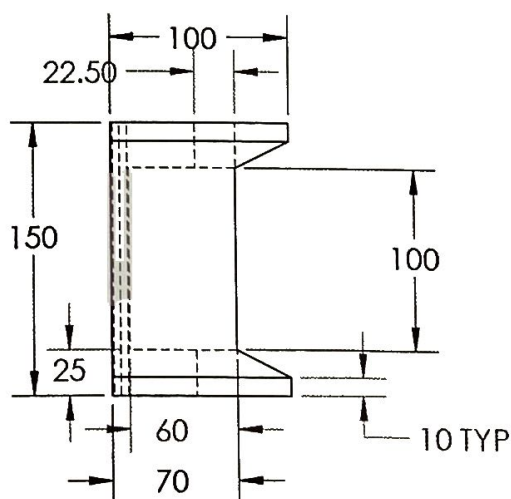
**7. Build the illustrated model using SOLIDWORKS.**

Calculate the overall mass and volume of the part with the provided information.

- Precision for linear dimensions = 2.
- Material: **Plain Carbon Steel.**
- Units: **MMGS.**
- The part is **symmetrical** about the Front Plane.



Top view



Front view

Calculate the mass:

A = 4311.5 grams

B = 4079.32 grams

C = 4234.30 grams

D = 5322.00 grams

Calculate the volume:

A = 522989.22 cubic millimeters

B = 555655.11 cubic millimeters

C = 591233.34 cubic millimeters

D = 655444.00 cubic millimeters

Create a new coordinate system.

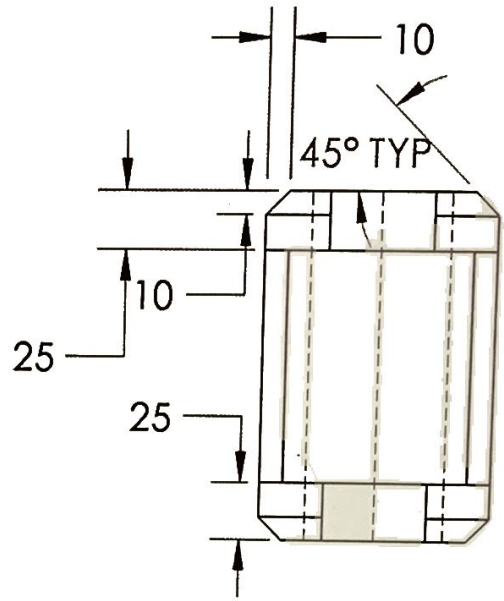
Center a new coordinate system with the provided illustration. The new coordinate system location is at the back right bottom point (vertex) of the model.

Enter the Center of Mass:

X = -64.9

Y = 75.00

Z = 40.70



Right view

