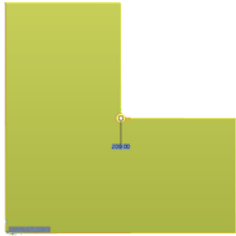


3D Solid Modelling - Sheet 1

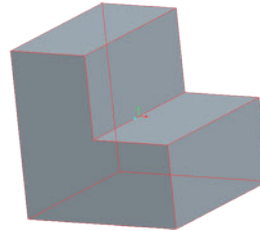
Total /6

An engineering component has been designed using 3D solid modelling software. Using your knowledge of solid modelling, identify which function has been used to create each stage of the engineering component.



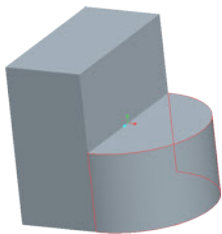
Stage 1

1 0



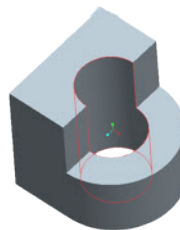
Stage 2

1 0



Stage 3

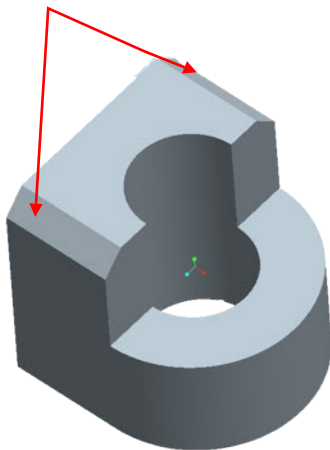
1 0



Stage 4

1 0

Highlighted Feature



Name the highlighted feature and explain how this could be created using 3D solid modelling to a size of 20mm x 20mm.

2 0

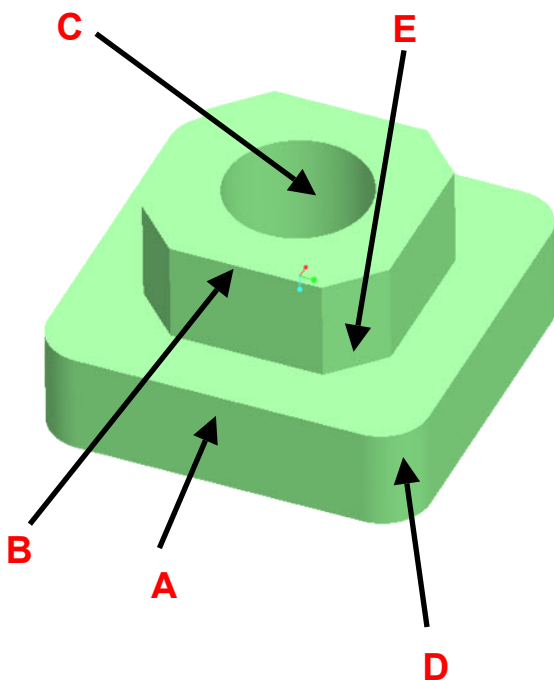
Name:

A bracket for a flagpole has been designed using 3D solid modelling software. Each stage of the process is numbered. Write a sequence of operations for creating the bracket.

Remember to use the correct terminology at all times.

- Part A is 100 x 100 x 25
- Part B is 50 x 50 x 25
- Hole C has a diameter of 25 and goes through the whole object
- Corner D has a radius of 20
- Corner E is 20 x 20

All sizes are in mm.



Sequence of Operations

- | | |
|-----------|-----|
| • Stage A | 1 0 |
| • Stage B | 1 0 |
| • Stage C | 1 0 |
| • Stage D | 1 0 |
| • Stage E | 1 0 |

Name: _____