



***12, Multiview drawing and section construction for a given detail. Creating an isometric view.***

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***Intellectual Output:* 3 -** Orthographic projections

***Exercise number:*** 12

***Title*:** Multiview drawing construction for a given detail. Section construction. Creating an isometric view from a standard 3-view orthographic drawing. Variant 12.

**Description**: Top and front views of detail, 3D model of the detail are given. Click and you will see 3D model of the detail with cut out.

1st task:

• On drawing sheet of A4 size construct front, top and left side views using scale 1:1.

• Make a half sections in front view and left side view of object (cutting planes coincide with planes of symmetry of object).

• Dimensioning detail.

2nd task:

• On drawing sheet of A4 size construct axonometric projection – rectangular isometric sectioned view of detail using scale 1:1.

• Mark out overall dimensions.

**Digital files:**

IO3-12-a.pdf: Top and front views of the detail

IO3-12-b.stl: 3D model of the detail

IO3-12-c.stl: 3D model of the detail with cut out

***Result:***

Multiview drawing of the given detail (sheet of A4 size, scale 1:1).

Isometric sectioned view of the detail (sheet of A4 size, scale 1:1).

***Prior knowledge:*** Construction of orthographic projections, sections, sectional views, axonometric projections, dimensioning

***Augmented reality content:*** Two models may be activated: 3D model of the detail and 3D model of the detail with cut out.

