Isometric Product Drawing: Axis, Box Form, and Face Shading

Original tasks 1, 2 / independent work

Task 1

A hypothetical box product has width 5 cm, depth 3 cm, and height 2 cm. Describe how to construct the top face and the two vertical side faces using isometric axes.

Task 2

Using the convention top lightest, left medium, right darkest, describe the shading for a box with width 4 cm, depth 4 cm, and height 4 cm. State one valid alternative convention.

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Original tasks 3, 4 / independent work

Task 3

A student draws a top face with width edges of 6 cm and 5 cm. Identify the error and describe the correction using isometric construction.

Task 4

Describe how to check that a drawn box product is isometric rather than perspective, using only a ruler and the stated axes.