Draw a Throne: Seat, Backrest and Armrest Proportions

Original tasks 1, 2 / independent work

Task 1

A throne has seat height 4 units and backrest height 1.5 times the seat height. Calculate the total height from floor to top of backrest.

Task 2

Seat width is 2.5 units from the center line and armrest width is 3 units from the center line. Calculate the overhang on each side and the total width across armrests.

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Original tasks 3, 4 / independent work

Task 3

In a three-quarter view, seat depth is 4 units and the depth line is drawn at 30 degrees. If the front seat width is 5 units, describe how to check that the backrest base is correctly placed.

Task 4

A student draws a throne with seat height 3 units, backrest height 6 units, seat width 2 units from center, and armrest width 2 units from center. Identify the proportion error and state a fix using a simple ratio.