Draw a Law Balance Scale: Beam, Pans, and Pillar

Original tasks 1, 2 / independent work

Task 1

A drawing has a beam 10 cm long centered on a pillar. Each pan is 2 cm wide and centered under a beam end. Calculate the total width from left pan edge to right pan edge.

Task 2

A pillar is 8 cm tall from baseline to beam line. The suspension lines are 2 cm long. What is the distance from the baseline to the pan-hang line?

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Original tasks 3, 4 / independent work

Task 3

A beam is 14 cm long. You want each pan to be 4 cm wide and centered under a beam end. How far does each pan extend beyond its beam end, and what is the total width?

Task 4

In a practice box, you redraw the scale at half the example dimensions: pillar height 5 cm, beam length 6 cm, suspension lines 1.5 cm, pan width 1.5 cm. Calculate the total width from left pan edge to right pan edge.