Draw an Antique Balance Scale with Labeled Parts

Original task 1 / independent drawing and calculation

Task 1

On a 12 cm by 18 cm drawing area, draw a scale with a 7 cm base, a 5 cm column, and a 9 cm beam. Place the pointer below the beam centre. Measure from the beam centre to each pan and record both distances. Label beam, pan, pointer, and base.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 2 / independent drawing and calculation

Task 2

A sketch has a 10 cm beam, an 8 cm base, and pans at 4.0 cm and 5.5 cm from the beam centre. The pointer is below the beam. State whether the symmetry passes a hypothetical 0.5 cm tolerance and explain what to adjust.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 3 / independent drawing and calculation

Task 3

Draw a scale with a tipped beam: the left pan is lower than the right pan. Keep the base, column, and pointer. Label all four parts and write one short note explaining that the tip is intentional.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 4 / independent drawing and calculation

Task 4

Using a hypothetical 0.5 cm tolerance, check a drawing where the left pan is 3.7 cm and the right pan is 4.1 cm from the beam centre. State the difference, whether it passes, and one label check you would perform.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.