How to Draw a Digital Weighing Scale: Proportions, Display, and Platform

Original task 1 / independent drawing and calculation

Task 1

On a 15 cm by 10 cm page, draw a scale body 9 cm wide and 3 cm tall centered horizontally. Mark a display panel 4 cm wide and 1.5 cm tall centered on the body. State the left and right margins of the panel.

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

Draw a platform ellipse 8 cm wide and 2.5 cm tall centered on a vertical centerline. After drawing, measure the left radius and right radius. What should each be, and what tolerance is acceptable?

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

Inside a display panel 6 cm wide and 2 cm tall, plan four digit spaces with equal gaps. If each digit space is 1 cm wide and the gaps are equal, what is each gap?

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

A scale body is 10 cm wide and 3.5 cm tall. A platform ellipse is 8 cm wide and 2 cm tall, centered 0.8 cm above the body top. What is the total height from the body bottom to the top of the ellipse?

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.