Draw a Kitchen Weight Scale: Dial, Platform, and Body

Original task 1 / independent drawing and calculation

Task 1

Draw a side-view kitchen weight scale with a body 14 cm wide and 9 cm high, a platform 16 cm long and 1 cm above the body top, and a dial radius of 3 cm centered on the body. List your steps and check the platform overhang.

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 student draws a body 12 cm wide and 8 cm high, but the platform is only 10 cm long. Explain the mistake and give a corrected platform length that overhangs 1 cm on each side.

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 dial with radius 2.5 cm on a body 8 cm high. The dial center is 3 cm above the body bottom. Does the dial fit inside the body? Show the arithmetic.

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

Create a simple label for the dial using the lettering convention. Explain how you keep x-height consistent for the letters in 'kg' even if their shapes differ.

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.