Draw a Weighing Scale: Dial, Platform, and Weights

Original task 1 / independent drawing and calculation

Task 1

Draw a scale with a dial diameter of 3 cm, a platform 6 cm wide and 1 cm tall, and a 1.5 cm gap between dial and platform. Add two weights labeled 2 kg and 1 kg. State the total labeled weight.

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 drawing has a dial diameter of 4 cm and a platform width of 3 cm. Identify the proportion problem and give a corrected platform width using the same units.

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 a center cross and a pointer of length 1 cm inside a dial of radius 2 cm. Add four tick marks. Explain why the pointer length 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 4 / independent drawing and calculation

Task 4

A scale drawing shows three weights labeled 1 kg, 0.5 kg, and 0.25 kg, but the 0.25 kg weight hangs over the platform edge by 0.5 cm. Describe the fix and state the total labeled weight after the fix.

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.