Draw Gym Equipment: Frame and Weight-Stack Construction

Original task 1 / independent drawing and calculation

Task 1

Draw a single upright frame 10 cm tall and 2 cm wide with a right-angle joint at the top connecting to a 6 cm horizontal tube. Add one pulley at the joint center with a 2 cm outer circle. Use hypothetical values and show the cable tangent to the pulley.

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 weight stack with five plates. Each plate is 3 cm wide and 0.8 cm tall, with 2 mm gaps. Add a selector pin through the top plate. Use a vertical center line and check that all center holes align.

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 frame with two uprights 12 cm tall and a top crossbar 8 cm wide. Add two pulleys, one at each top corner, each with a 2 cm outer circle. Show a cable running from the left pulley tangent to the right pulley. Label the frame height and stack height with a consistent x-height.

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

Draw a machine frame 9 cm tall with a weight stack 3 cm tall. Use four plates of equal size with 2 mm gaps. Add one pulley at the top with a cable tangent to it and connected to the top plate. Check the frame-to-stack ratio and state whether it matches the three-to-one proportion.

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.