Closet Contour Drawing: Hangers, Clothes, and Shelf Edges

Original tasks 1, 2, 3, 4 / complete keys

Task 1

A closet opening is 90 cm wide and 180 cm high. On a page scaled at 1 cm per 10 cm, what are the page dimensions of the outer rectangle?

Answer: 9 cm wide and 18 cm high.

Reason: Divide each measurement by 10: 90 divided by 10 is 9, and 180 divided by 10 is 18.

Check: Multiply the page dimensions by 10 and confirm they return to 90 cm and 180 cm.

Task 2

A closet is 200 cm high with four equal shelf gaps. What is the height of each gap in centimeters?

Answer: 50 cm.

Reason: Four equal gaps divide the total height into four parts: 200 divided by 4 equals 50.

Check: Add four gaps of 50 cm to confirm the total is 200 cm.

Task 3

In a contour drawing, a front garment covers part of a back garment. Describe what happens to the back garment line at the overlap.

Answer: The back garment line stops where the front garment edge begins and does not continue through the hidden region.

Reason: Contour drawing shows only visible edges, so hidden edges are omitted.

Check: Trace the back line and confirm it does not cross the front garment outline.

Task 4

A shelf edge is drawn 6 cm from the top on a page scaled at 1 cm per 10 cm. What real distance does this represent?

Answer: 60 cm.

Reason: Multiply the page distance by the scale: 6 cm times 10 equals 60 cm.

Check: Divide 60 cm by 10 to return to 6 cm on the page.

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Source rubric / reflection

- [ ] Outer closet rectangle matches the measured width-to-height ratio within a small tolerance.
- [ ] Shelf edges are horizontal and spaced according to measured proportions.
- [ ] Each hanging garment contour touches the rod at a hanger hook.
- [ ] Overlapping garments interrupt rather than cross hidden edges.
- [ ] Lines are continuous and follow visible edges only.
- [ ] Valid alternative clothing outlines are accepted if they follow the edge convention.

Reflection: What did you check, what did you change, and what will you try next?