Seat Drawing: Cushion, Legs, and Backrest Variants

Original tasks 1, 2, 3 / complete keys

Task 1

Draw a seat with a 10 cm by 6 cm plate, a cushion 8 cm by 4 cm centered, and four legs 1 cm wide and 8 cm long. State side margins.

Answer: Side margins are (10-8)/2 = 1 cm each; front/back margins are (6-4)/2 = 1 cm each. Four legs total 4 cm width.

Reason: Subtract cushion width from plate width and divide by two for equal side margins; repeat for depth.

Check: Measure margins on the drawing and confirm each is 1 cm; count four parallel legs.

Task 2

Draw a seat with a 12 cm by 8 cm plate and Variant A rectangular backrest 10 cm wide and 6 cm high. State the backrest-to-depth ratio.

Answer: Backrest height 6 cm to plate depth 8 cm is ratio 6:8, simplified to 3:4. Backrest is centered on the rear edge.

Reason: Compare the two lengths directly and simplify by dividing both by 2.

Check: Confirm backrest is centered and does not cover the cushion front; verify ratio by measurement.

Task 3

Draw a seat with a 16 cm by 10 cm plate, cushion 14 cm by 8 cm, and Variant C slatted backrest: three slats 1 cm wide and 9 cm tall spaced 1 cm apart. State total slat-and-gap width.

Answer: Three slats at 1 cm plus two gaps at 1 cm equals 3 + 2 = 5 cm total width. Side margins for cushion are (16-14)/2 = 1 cm each.

Reason: Add slat widths and gap widths separately, then sum; use subtraction for cushion margins.

Check: Measure the slat group width as 5 cm and confirm three slats with two equal gaps.

Seat Drawing: Cushion, Legs, and Backrest Variants

Original tasks 4 / complete keys

Task 4

Draw a seat with a 9 cm by 7 cm plate, cushion 7 cm by 5 cm, four legs 1 cm by 9 cm, and Variant B curved backrest 7 cm wide and 6 cm high at center. State one proportion check.

Answer: Cushion side margins are (9-7)/2 = 1 cm each; front/back margins are (7-5)/2 = 1 cm each. Backrest height 6 cm to plate depth 7 cm is ratio 6:7.

Reason: Use subtraction for margins and a direct ratio for backrest height versus plate depth.

Check: Verify all four margins are 1 cm and the arc is centered and behind the cushion.

Seat Drawing: Cushion, Legs, and Backrest Variants

Source rubric / reflection

- [ ] Seat plate is a clear horizontal rectangle with four marked corner points.
- [ ] Cushion is a rounded rectangle inside the plate with visible front edge and correct margins by subtraction.
- [ ] Four legs are parallel, equal width, and attached at corner points.
- [ ] One backrest variant is clearly chosen and drawn centered on the rear edge without covering the cushion front.
- [ ] Labels use baseline-to-midline x-height convention; letter style may vary.
- [ ] All measurements use one stated unit and hypothetical values are labeled as examples.
- [ ] Final lines are darkened and guide lines removed.

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