Frontal Drawing: Symmetry Guides for a Front-Facing Figure

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

Task 1

A frontal guide has a shoulder width of 14 cm. Mark both shoulder points from the axis and state their offsets.

Answer: Each shoulder point is 7 cm from the axis: 7 cm left and 7 cm right.

Reason: Half of 14 cm is 7 cm. Frontal symmetry requires equal offsets on both sides.

Check: Subtract the left offset from the right offset: 7 minus 7 equals 0. Confirm the midpoint lies on the axis.

Task 2

Eye centers are placed 4 cm left and 5 cm right of the axis. Identify the error and give corrected offsets for a 4 cm target.

Answer: The right eye is misplaced. Correct offsets are 4 cm left and 4 cm right.

Reason: Paired features must have equal distances from the axis. The difference is 5 minus 4 equals 1 cm.

Check: Re-measure both eyes from the axis and confirm the difference is 0. Check that the midpoint is on the axis.

Task 3

A hip width is 9 cm. Mark hip points and verify with the midpoint test.

Answer: Hip points are 4.5 cm left and 4.5 cm right of the axis. The midpoint is on the axis.

Reason: Half of 9 cm is 4.5 cm. Equal offsets produce a midpoint at the axis.

Check: Difference: 4.5 minus 4.5 equals 0. Midpoint: average of the two offsets is 0 from the axis.

Task 4

A small feature is placed at a height that is above the x-height band. State the convention and one valid correction.

Answer: X-height runs from baseline to midline. Move the feature down so it sits within that band, or redraw the band and place the feature inside it.

Reason: The convention defines a checkable vertical range. Letter styles vary, so the band allows alternatives rather than one exact line.

Check: Mark baseline and midline, then confirm the feature lies between them. Record the band height in the same unit as other measurements.

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Source rubric / reflection

- [ ] A single vertical symmetry axis is clearly present.
- [ ] Shoulder and hip widths are marked as equal left and right offsets.
- [ ] Paired features are measured from the axis, not the page edge.
- [ ] Midpoint test confirms each pair centers on the axis.
- [ ] X-height is treated as a baseline-to-midline band, allowing letter-style variation.
- [ ] Units are consistent and numerical values are labeled as hypothetical examples.
- [ ] Valid alternatives are accepted when paired offsets remain equal.

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