Twin Figure Pose Comparison: Mirrored Drawing Exercise

Original tasks 1, 2, 3 / complete keys

Task 1

Figure one has its left shoulder 2 cm left of the midline at 10 cm above baseline and its right hip 3 cm right of the midline at 6 cm above baseline. State the twin's corresponding shoulder and hip positions.

Answer: Twin's corresponding shoulder: 2 cm right of midline at 10 cm above baseline. Twin's corresponding hip: 3 cm left of midline at 6 cm above baseline.

Reason: Mirroring reflects horizontal distance across the midline while keeping height unchanged. Left becomes right and right becomes left at the same distance.

Check: Measure each stated distance from the midline with a ruler and confirm the heights match the original values.

Task 2

A first figure's forearm is 3 cm long and angled 20 degrees inward toward the midline. The twin's forearm is drawn 4 cm long and angled 20 degrees inward. Identify the error and state the correction.

Answer: The length is wrong. The twin's forearm should be 3 cm, matching the first figure, while the 20-degree inward angle is mirrored toward the opposite side.

Reason: Mirroring preserves segment lengths and mirrors angles. Changing length breaks the twin comparison.

Check: Compare the two forearm lengths with a ruler and confirm both angles are equal but directed toward opposite sides of the midline.

Task 3

In a pose box, figure one's left knee is 1.5 cm left of the midline and 5 cm above baseline. The twin's corresponding knee is placed 1.5 cm left of the midline and 5 cm above baseline. Is this a correct mirror? Explain.

Answer: No. The twin's knee should be 1.5 cm right of the midline at 5 cm above baseline. Placing it on the same side copies the position instead of reflecting it.

Reason: A mirror reflection changes the side of the midline while keeping distance and height. Same-side placement is a copy, not a mirror.

Check: Measure the horizontal distance from the midline on each side and confirm the twin's knee is on the opposite side at the same height.

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Original tasks 4 / complete keys

Task 4

Figure one has upper arm 4 cm, forearm 3 cm, thigh 5 cm, and shin 4 cm. The twin is drawn with upper arm 4 cm, forearm 3 cm, thigh 5 cm, and shin 5 cm. State whether the twins pass the segment-length check and what to adjust.

Answer: They do not pass because the shin lengths differ. Adjust the twin's shin to 4 cm to match figure one.

Reason: Corresponding segment lengths must match for a valid mirrored pose comparison. One mismatched segment is enough to fail the check.

Check: List all four segment lengths for both figures and compare each pair with a ruler; adjust any pair that differs beyond the stated tolerance.

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Source rubric / reflection

- [ ] Midline and baseline are clearly drawn and used for measurement.
- [ ] Both figures use the same defined body convention.
- [ ] Corresponding joint distances from the midline match within the stated tolerance.
- [ ] Corresponding segment lengths match within the stated tolerance.
- [ ] The two poses read as mirrored rather than copied or unrelated.
- [ ] Portrait detail and clothing design are excluded as required.
- [ ] Valid alternative conventions are accepted if consistently applied and checkable.

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