Maraca Drawing: Handle, Rounded Body, and Bead Detail

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

Task 1

A maraca drawing uses a 10 x-height total height. The handle is 4 x-heights and the body is 6 x-heights. Where is the widest body point if it sits 3 x-heights above the handle top?

Answer: At 7 x-heights from the bottom.

Reason: Handle top is at 4. Add 3 x-heights for the widest point: 4 + 3 = 7. The body top is at 10, so the widest point is 3 x-heights below the top.

Check: Verify that 4 + 6 = 10 total, and that 7 is between 4 and 10.

Task 2

You draw three bands on a body that is 6 x-heights tall. Band one is 1 x-height above the join, band two is at the middle, and band three is 1 x-height below the top. Give the height of each band above the join.

Answer: Band one: 1 x-height; band two: 3 x-heights; band three: 5 x-heights.

Reason: The middle of a 6 x-height body is 3 x-heights above the join. The top is 6, so 1 x-height below the top is 6 - 1 = 5.

Check: Confirm the three values increase in order and stay within 0 to 6.

Task 3

A handle is 1.2 x-heights wide at the join. The body at the join is 2.4 x-heights wide. How much wider is the body than the handle at the join?

Answer: 1.2 x-heights wider.

Reason: Subtract the handle width from the body width: 2.4 - 1.2 = 1.2.

Check: Add the difference back to the handle width: 1.2 + 1.2 = 2.4.

Task 4

You plan 8 bead marks along a band. Each mark is 0.3 x-heights across. If the marks are evenly spaced with no gaps counted, what total width do the marks cover?

Answer: 2.4 x-heights.

Reason: Multiply the number of marks by the width of one mark: 8 × 0.3 = 2.4.

Check: Divide the total by 8 to return to 0.3: 2.4 ÷ 8 = 0.3.

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Source rubric / reflection

- [ ] Handle is straight, centered, and about 1 to 1.2 x-heights wide.
- [ ] Body is a rounded oval, taller than wide, and widest near the middle.
- [ ] Handle and body join without a gap or a step.
- [ ] At least two decorative bands curve with the body surface.
- [ ] Bead marks repeat evenly and stay about 0.3 x-heights across.
- [ ] Construction lines are light or erased, and the final outline is clear.

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