Draw a Bell Cluster: Body, Clapper, and Handle Construction

Original tasks 1, 2 / complete keys

Task 1

Draw one bell with a bar handle and a clapper. The bell is 6 cm tall, top width 2 cm, bottom width 4 cm. Describe where the clapper goes.

Answer: A bell body 6 cm tall, narrowing from 4 cm at the bottom to 2 cm at the top, with a slight curve at the bottom. A bar handle at the top center with two uprights touching the top cap. The clapper is a small circle centered on the vertical line, with its center about 0.5 cm below the bottom edge.

Reason: The body proportions follow the narrowing rule. The bar handle attaches at the top cap. The clapper is centered and slightly below the opening so it reads as hanging inside.

Check: Measure the height and widths with a ruler. Check that both handle uprights touch the top cap. Check that the clapper center is on the vertical line and below the bottom edge.

Task 2

Draw a cluster of two bells: a large bell 8 cm tall and a small bell 4 cm tall. Use loop handles. The small bell overlaps the large bell slightly. Describe how you keep both clappers visible.

Answer: Draw the large bell first with an 8 cm height and proportional widths. Add a loop handle at the top. Draw the small bell in front, overlapping the lower side of the large bell. Place the small bell's clapper centered below its own bottom edge. Keep the large bell's clapper visible by not covering its lower opening with the small bell.

Reason: Overlap is allowed, but each visible opening must show its clapper. Placing the small bell to the side of the large bell's opening keeps both clappers visible.

Check: Check that both loop handles touch their top caps. Check that each clapper is centered on its bell's vertical line and below its bottom edge. Confirm that neither clapper is hidden by the overlap.

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Original tasks 3, 4 / complete keys

Task 3

A student draws three bells but all handles float above the bodies. Describe the fix and redraw one bell correctly in words.

Answer: The fix is to extend each handle downward until both ends touch the top cap of the bell body. For one bell, draw the body, then draw a loop handle whose two ends meet the top cap. Check that no gap remains between the handle and the body.

Reason: A floating handle breaks the construction because the handle must attach to the bell. Touching the top cap makes the connection clear.

Check: Look for a gap between the handle ends and the top cap. Run a finger along the top cap to confirm both ends meet the body.

Task 4

Draw a cluster of three bells with mixed handle styles: one loop, one bar, one loop. State your convention and check that all clappers are centered.

Answer: State the convention: loop handles for the large and small bells, bar handle for the medium bell. Draw the large bell with a loop handle, the medium bell with a bar handle, and the small bell with a loop handle. Center each clapper on its bell's vertical line and place it slightly below the bottom edge. Check that each handle attaches to its top cap.

Reason: Mixed handle styles are allowed if stated as a convention. Centering clappers and attaching handles keeps the construction consistent.

Check: Confirm the stated convention matches the drawing. Check each clapper against its bell's vertical center line. Check each handle's ends touch the top cap.

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Source rubric / reflection

- [ ] Bell body narrows at the top and flares at the bottom with a curved opening.
- [ ] Clapper is centered on the vertical line and hangs slightly below the bottom edge.
- [ ] Handle attaches to the top cap with both ends touching the bell body.
- [ ] Cluster shows at least three bells with different sizes and consistent proportions.
- [ ] Overlaps do not hide handles or clappers that should be visible.
- [ ] Drawing follows a stated convention for handle style and clapper shape.
- [ ] Valid alternatives are accepted if the construction is clear and consistent.

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