Draw a Wrapped Birthday Gift: Box, Ribbon Bow, and Tag

Original tasks 1, 2 / complete keys

Task 1

Draw a box with width 8 cm, height 4 cm, depth 2 cm. Add one vertical seam 1 cm from the right front edge and ribbon bands meeting at top center.

Answer: Front rectangle 8 by 4 cm; top parallelogram with 2 cm depth lines; side face; seam 1 cm from the right front edge; two ribbon bands crossing at the top center.

Reason: The ratio 8:4:2 simplifies to 4:2:1, so the box is wider than tall and shallow. The seam offset is measured from the right edge, and the ribbon crossing point is the top center.

Check: Measure the front rectangle (8 by 4 cm) and the depth lines (2 cm); confirm the seam is 1 cm from the right edge and both ribbon bands meet at the top center.

Task 2

Draw a bow with a knot oval 1 cm wide, two loops each about 2 cm long, and two tails. Add a tag one-third the bow width with a string to the knot.

Answer: Knot oval 1 cm wide; left and right loops about 2 cm long; bow width about 5 cm from left loop tip to right loop tip; two tails; tag about 1.7 cm wide with a string to the knot.

Reason: The loop-to-knot ratio is 2:1. Bow width is the total span from left loop tip to right loop tip: about 2 cm loop + 1 cm knot + 2 cm loop = 5 cm. The tag is one-third of the bow width, so about 1.7 cm. The string connects the tag to the knot.

Check: Compare left and right loop lengths (each about 2 cm); measure the bow width from left loop tip to right loop tip (about 5 cm); confirm the tag is about one-third of that width (about 1.7 cm) and the string reaches the knot.

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Original tasks 3, 4 / complete keys

Task 3

Draw a wrapped gift with a three-loop bow instead of two loops. Keep the box 9 by 6 by 3 cm and the ribbon bands meeting at top center.

Answer: Box 9 by 6 by 3 cm; ribbon bands crossing at top center; three balanced loops around a central knot; tag optional but if added, smaller than the bow.

Reason: A three-loop bow is a valid alternative. Balance the loops around the knot and keep the ribbon crossing point at the top center.

Check: Check that the three loops are similar in size and arranged around the knot; confirm the ribbon bands still meet at the top center and the box keeps the 9:6:3 ratio.

Task 4

Draw a gift tag with the word JOY. Keep letters between baseline and midline. Use a tag rectangle 3 cm wide and 1.5 cm high.

Answer: Tag rectangle 3 by 1.5 cm; letters J, O, Y placed between baseline and midline; string to the bow knot.

Reason: The convention defines x-height as baseline to midline. Letter styles vary, so any readable style is acceptable if the letters fit between baseline and midline.

Check: Measure the tag (3 by 1.5 cm); confirm each letter stays between baseline and midline and the string connects to the knot.

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Source rubric / reflection

- [ ] Box proportions match the chosen ratio within a small margin.
- [ ] Top face is a parallelogram with parallel opposite edges.
- [ ] Wrapping paper seam is straight and parallel to a box edge.
- [ ] Ribbon bands meet at the top center.
- [ ] Bow has a clear knot, two or more balanced loops, and tails.
- [ ] Tag is smaller than the bow and connected by a string.
- [ ] Lettering stays between baseline and midline.
- [ ] Valid alternatives such as three loops or a tag on the other side are accepted if construction is consistent.

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