Dumpster Drawing: Front and Angled Views with Lid, Wheels, and Body Proportions

Original tasks 1, 2 / complete keys

Task 1

Draw a front-view dumpster with a closed lid. Body 10 cm wide and 6 cm tall. Wheels 1.5 cm diameter. Describe where the lid and wheels go.

Answer: A 10 cm by 6 cm rectangle. A thin horizontal lid band attached along the top back edge, flush with the body. Two 1.5 cm wheel circles centered near the lower front corners, below the body, with short axle lines.

Reason: Width divided by height is 10 divided by 6, about 1.67, close to the 1.5 target. A closed lid sits as a thin band on the hinge line. Wheel diameter is one quarter of 6 cm, which is 1.5 cm.

Check: Measure the rectangle and wheels. Confirm the lid touches the top back edge and the wheels are below the body near the lower corners.

Task 2

Draw an angled-view dumpster with a lid open about 70 degrees. Front face 8 cm tall and 6 cm wide; side face recedes 4 cm. Wheels 2 cm diameter. Describe the lid and wheel placement.

Answer: A front face 6 cm wide by 8 cm tall, with a side face 4 cm deep receding to the right. A hinge line along the back top edge of the side face. A lid parallelogram rising about 70 degrees from the hinge. Near wheel 2 cm diameter at the lower front corner; far wheel partly hidden behind the side face.

Reason: The front face height matches the front-view proportion. The lid pivots at the back hinge and lifts steeply. The near wheel is fully visible; the far wheel is partly hidden, which is correct for an angled view.

Check: Check the hinge line matches the back top edge. Measure the near wheel diameter at about 2 cm, one quarter of the 8 cm front face height. Confirm the far wheel is partly hidden.

Dumpster Drawing: Front and Angled Views with Lid, Wheels, and Body Proportions

Original tasks 3, 4 / complete keys

Task 3

A student draws a front-view dumpster 6 cm wide and 9 cm tall with a lid floating 1 cm above the body and wheels at the middle of the body. Identify two mistakes and state fixes.

Answer: Mistake one: the body is taller than wide, so it looks like a trash can. Fix: make width about 1.5 times height, for example 9 cm wide by 6 cm tall. Mistake two: the lid floats and the wheels are at the middle. Fix: attach the lid to the top back hinge line and move wheel centers to the lower front corners below the body.

Reason: The target ratio is width about 1.5 times height; 6 by 9 is inverted. The lid must touch the hinge, and wheels belong near the lower front corners.

Check: Measure width and height to confirm the ratio. Check the lid touches the hinge line and each wheel center is near a lower front corner.

Task 4

Draw a front-view dumpster with body 12 cm wide and 8 cm tall. Show a lid partly open at about 30 degrees and two wheels 2 cm diameter. Then add a top rim and front lip. Describe the final checks.

Answer: A 12 cm by 8 cm rectangle. A hinge line along the top back edge. A lid panel tilted about 30 degrees, attached at the hinge, front edge lifted. Two 2 cm wheels near the lower front corners with axle lines. A top rim and front lip added. Final checks: width divided by height equals 1.5; lid touches hinge; wheel diameter is one quarter of body height; wheels sit below the body.

Reason: This combines the body ratio, lid angle, and wheel proportion in one drawing. The top rim and front lip are simple details that do not change the core proportions.

Check: Use a ruler to verify 12 divided by 8 equals 1.5 and wheel diameter is about 2 cm. Visually confirm the lid is attached and the wheels are below the body near the lower corners.

Dumpster Drawing: Front and Angled Views with Lid, Wheels, and Body Proportions

Source rubric / reflection

- [ ] Body width is about 1.5 times body height in front view; angled view keeps the same front face height.
- [ ] Lid is attached to the back top hinge line and shows a chosen angle (closed, about 30 degrees, or about 70 degrees).
- [ ] Two wheels are placed near the lower front corners, below the body, with diameter about one quarter of body height.
- [ ] Angled view shows a side face and hides part of the far wheel behind the body.
- [ ] Details such as top rim and front lip are consistent between views; line style and lettering may vary.

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