Draw a Pitcher: Rim Ellipse, Handle Curve, and Spout

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

Task 1

A pitcher body is 10 cm tall and 6 cm wide. The rim width is 5 cm. Using the one-third ratio, what is the rim ellipse minor axis?

Answer: About 1.7 cm.

Reason: One third of 5 cm is 1.67 cm, rounded to 1.7 cm for drawing.

Check: Multiply 1.7 cm by 3 to get about 5.1 cm, close to the 5 cm rim width.

Task 2

A handle attaches 3 cm below the rim and 9 cm below the rim on a 12 cm body. What is the vertical distance between attachments?

Answer: 6 cm.

Reason: Subtract the upper attachment height from the lower: 9 cm minus 3 cm equals 6 cm.

Check: Add 6 cm to 3 cm to return to 9 cm.

Task 3

A spout base is marked 1.5 cm from the rim side on a 6 cm wide rim. The pour point is 2 cm above the rim. Describe the two spout lines needed.

Answer: Two lines from the spout base area on the rim converge to a pour point 2 cm above the rim.

Reason: The spout is a short channel; the lines start at the rim and meet at one point.

Check: Confirm both lines touch the rim ellipse and meet at the same pour point.

Task 4

A drawing shows a circular rim, a handle on the right, and a spout on the right. Name two fixes.

Answer: Flatten the rim into an ellipse and move the spout or handle to the opposite side.

Reason: A pitcher rim is seen as an ellipse, and handle and spout should be opposite for a clear form.

Check: Check that the rim minor axis is shorter than the major axis and that handle and spout are on opposite sides.

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Source rubric / reflection

- [ ] Rim is drawn as an ellipse with a clear minor axis shorter than the major axis.
- [ ] Handle attaches at two points on the body and bows outward smoothly.
- [ ] Spout connects to the rim and converges to a single pour point.
- [ ] Handle and spout are on opposite sides.
- [ ] Final outline is clear and construction lines are removed or light.
- [ ] Valid alternative proportions are accepted if the three features read clearly.

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