# Blind Contour Coffee Cup and Saucer: Timed Edge Study

Original tasks 1, 2, 3 / complete keys

Task 1

A cup rim's left extreme is 4 cm left of center and its right extreme is 4 cm right of center. In a 30-second attempt, the drawn line reaches 3 cm left and 5 cm right. Using a 1 cm tolerance, judge each checkpoint.

Answer: Left: 3 cm vs 4 cm is 1 cm short, within tolerance, so reached. Right: 5 cm vs 4 cm is 1 cm overshot, within tolerance, so reached.

Reason: Compare the drawn distance to the observed distance at each checkpoint. A difference of 1 cm or less is within the stated tolerance.

Check: Subtract the smaller distance from the larger at each checkpoint and confirm the result is 1 cm or less.

Task 2

A saucer's widest point is 7 cm left of center. In a 120-second attempt, the drawn line reaches 5 cm left. Using a 1 cm tolerance, is the checkpoint reached, overshot, or short?

Answer: Short, because 7 cm minus 5 cm equals 2 cm, which exceeds the 1 cm tolerance.

Reason: The drawn line stops 2 cm before the observed checkpoint, so it is short beyond tolerance.

Check: Subtract 5 cm from 7 cm and compare the 2 cm difference to the 1 cm tolerance.

Task 3

A handle's outermost point is 6 cm right of center. In a 60-second attempt, the drawn line reaches 6 cm right but is broken into two segments. Using the convention, is the checkpoint reached, and what else must be noted?

Answer: The checkpoint is reached because the position matches exactly. Continuity must also be noted as broken.

Reason: Position accuracy and continuity are judged separately. A broken line can still reach the checkpoint.

Check: Confirm the distances match, then record whether the line was continuous or broken.

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Original tasks 4 / complete keys

Task 4

Three attempts use the same viewpoint. The 30-second attempt reaches all four checkpoints within 1 cm. The 60-second attempt overshoots the handle by 2 cm. The 120-second attempt reaches all four checkpoints within 1 cm. Which attempt has the largest checkpoint error, and by how much?

Answer: The 60-second attempt has the largest error: 2 cm at the handle.

Reason: Compare the absolute differences at each checkpoint across attempts. The 2 cm overshoot exceeds the 1 cm differences in the other attempts.

Check: List the absolute difference at each checkpoint for each attempt and select the largest value.

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Source rubric / reflection

- [ ] Eyes remain on the object during each timed attempt; no looking at the paper until the timer ends.
- [ ] Same viewpoint and edge order used for all three attempts.
- [ ] Four checkpoints identified and compared after each attempt.
- [ ] Each checkpoint scored as reached, overshot, or short using a stated tolerance.
- [ ] Line continuity noted without erasing or correcting.
- [ ] Reflection compares the 30-second and 120-second attempts in one sentence.
- [ ] Valid alternatives in line weight, curvature, and starting point are accepted if checkpoint positions and continuity are judged consistently.

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