Echo Drawing: Copy a Picture Square by Square

Original tasks 1, 2 / complete keys

Task 1

A two-by-two reference grid: cell A1 has a straight line from the top-left corner to the bottom-right corner. Cell A2 has a horizontal line along the midline from left edge to right edge. Cells B1 and B2 are empty. Describe the drawing for each cell on a matching blank grid.

Answer: A1: diagonal from top-left to bottom-right. A2: horizontal line at midline across the full width. B1 and B2: empty.

Reason: Each cell is described by edge contacts and turn points. A1 touches two opposite corners. A2 touches both side edges at the midline. Empty cells stay empty.

Check: Confirm A1 touches both named corners, A2 sits at the midline and touches both side edges, and B1 and B2 have no marks.

Task 2

A three-by-one reference grid: cell A1 has a vertical line at half-width from top edge to bottom edge. Cell B1 has a curve starting at the left edge at the baseline, peaking at half-width at the midline, and ending at the right edge at the baseline. Cell C1 has a filled square covering one quarter of the cell in the top-left corner. Describe the copy.

Answer: A1: vertical line at half-width, full height. B1: curve with the described start, peak, and end. C1: shaded square in the top-left quarter.

Reason: The vertical line is placed by its half-width position. The curve is placed by three points. The fill is a simple fraction of the cell.

Check: Measure that the vertical line is near half-width, that the curve peak is near the midline, and that the shaded area is about one quarter in the top-left.

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Original tasks 3, 4 / complete keys

Task 3

A two-by-three reference grid: cell A2 contains a letter-like shape with a vertical stroke at the left edge from baseline to midline and a horizontal stroke at the midline from left edge to half-width. Cell B2 is empty. Cell A3 contains a horizontal line at the baseline from left edge to right edge. Cells B1, B3, and A1 are empty. Describe the copy and note one valid alternative style.

Answer: A2: vertical stroke at left edge from baseline to midline, plus horizontal stroke at midline from left edge to half-width. A3: baseline horizontal line across the full width. Other cells empty. A valid alternative is a rounded corner where the two strokes meet.

Reason: The shape is defined by edge contacts and a turn at the midline. Letter styles vary, so a rounded or angular join is acceptable when the contacts match.

Check: Confirm the vertical stroke reaches the midline, the horizontal stroke reaches half-width, and the join is at the midline near the left edge.

Task 4

A three-by-two reference grid: cell C1 has a curve from the bottom edge at half-width to the top edge at half-width, bulging right to the right edge at the midline. Cell C2 has a filled area covering one half of the cell on the right side. All other cells are empty. Describe the copy and state how to check the fill.

Answer: C1: curve from bottom edge at half-width to top edge at half-width, bulging to the right edge at the midline. C2: right half shaded. Other cells empty. Check fill by comparing shaded width to half the cell width.

Reason: The curve is placed by three edge contacts. The fill is a simple fraction described by side and amount.

Check: Confirm the curve touches bottom and top edges at half-width and reaches the right edge at the midline; confirm the shaded area is about half the cell width on the right.

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Source rubric / reflection

- [ ] Edge contacts match the reference description (0-2).
- [ ] Internal turn points match described fractions (0-2).
- [ ] Fill fraction matches when shading is described (0-2).
- [ ] Row and column counts match between grids (0-2).
- [ ] Corrections are limited to the smallest wrong part (0-2).
- [ ] Valid alternative line styles are accepted (0-2).

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