# Draw Serpent Scale Rows: Overlap Practice

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

Task 1

A band is 9 cm long with row centers every 1.5 cm. Each row has 4 scales. Find the number of rows and total scales.

Answer: Six rows and 24 scales.

Reason: 9 divided by 1.5 equals 6 rows; 6 times 4 equals 24 scales.

Check: Multiply rows by scales per row and confirm the product is 24.

Task 2

A row is 6 cm wide and each scale is 1.5 cm wide with a 0.25 cm overlap between neighbors. Estimate how many scales fit.

Answer: About 5 scales.

Reason: Each additional scale adds 1.25 cm after the first 1.5 cm; 1.5 plus four times 1.25 equals 6.5 cm, so five scales fit within 6 cm with slight trimming.

Check: Add 1.5 and four 1.25 cm steps and compare with 6 cm.

Task 3

You draw 7 rows with 5 scales each, but one row has 6 scales. What is the total scale count?

Answer: 36 scales.

Reason: Six rows of 5 give 30; adding the 6-scale row gives 36.

Check: Recount row by row and sum to 36.

Task 4

A band has 8 rows spaced 1.2 cm apart. What length does the row span cover from first to last row center?

Answer: 8.4 cm.

Reason: Seven intervals between eight rows times 1.2 cm equals 8.4 cm.

Check: Count intervals as rows minus one, then multiply by spacing.

# Draw Serpent Scale Rows: Overlap Practice

Source rubric / reflection

- [ ] Body band is smooth and a centerline is present.
- [ ] Row centers are evenly spaced and counted.
- [ ] Overlap direction is stated and consistent across all rows.
- [ ] Alternate rows are offset by about half a scale width.
- [ ] Shading marks covered areas, not exposed rims.
- [ ] Scale counts per row are recorded and match the drawing.

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