Cobra Scale Patterns: Diamond vs Overlapping Rows

Original task 1 / independent drawing and calculation

Task 1

Draw a diamond pattern panel 8 cm wide with 4 scales across one row. Use a constant x-height of 1 cm. Describe the offset of the second row.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 2 / independent drawing and calculation

Task 2

Draw an overlapping row pattern panel 12 cm wide with 6 scales across one row. Choose a consistent overlap depth of 0.5 cm. Explain how you check consistency.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 3 / independent drawing and calculation

Task 3

A student draws a diamond pattern with 5 scales across a 10 cm panel, then draws a second row offset by 2 cm. Is the offset correct for a diamond pattern? Explain using arithmetic.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 4 / independent drawing and calculation

Task 4

Compare two panels: Panel A is a diamond pattern 9 cm wide with 3 scales across one row; Panel B is an overlapping row pattern 9 cm wide with 3 scales across one row. Both use a 1.5 cm x-height. Which panel has more visible gaps, and why?

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.