# Draw a Hopscotch Grid: Numbered Square Layout Guide

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

Task 1

A grid has 5 single squares stacked with 3 cm squares and 1 cm gaps. What is the total height?

Answer: 19 cm.

Reason: Five squares give 5 times 3 equals 15 cm. Four gaps give 4 times 1 equals 4 cm. Total 15 plus 4 equals 19 cm.

Check: Add square heights and gap heights separately, then sum. Confirm units are cm.

Task 2

A paired row has two 4 cm squares and one 1 cm gap. What is the row width?

Answer: 9 cm.

Reason: Two squares give 2 times 4 equals 8 cm. One gap is 1 cm. Total 8 plus 1 equals 9 cm.

Check: Multiply square size by 2, add gap once, and confirm the row fits the paper width.

Task 3

A square has diagonals measured as 5.6 cm and 5.6 cm. Is it square?

Answer: Yes, within the ruler's smallest mark.

Reason: Equal diagonals indicate a square. Both readings match at 5.6 cm.

Check: Measure both diagonals again; if they differ by more than the smallest ruler mark, redraw.

Task 4

A layout has rows 1,2,1,2,1 with 3 cm squares and 1 cm gaps. What is the total height?

Answer: 19 cm.

Reason: Five rows give 5 times 3 equals 15 cm. Four gaps give 4 times 1 equals 4 cm. Total 19 cm. Paired rows do not change height.

Check: Count rows, not squares, for height. Add row heights and gaps.

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Source rubric / reflection

- [ ] All squares are closed and have four straight sides.
- [ ] Square size is consistent within the chosen convention.
- [ ] Gaps between squares are equal.
- [ ] Numbers are centered, legible, and in correct sequence.
- [ ] Layout fits inside the paper margins.
- [ ] Custom blank grid has equal cells and no numbers.
- [ ] Valid alternatives: any legible digit style and any square count that fits the measured paper.

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