Make Decorative Ruled Stationery with a Border

Complete worked example / separate key

A sheet measures 210 mm by 297 mm. Use a hypothetical 15 mm border margin and a 5 mm inner gap. Calculate the writing area width and height, then state how many 8 mm line intervals fit if the first baseline starts 10 mm below the top of the writing area.

Answer: Writing area width = 210 - 2(15 + 5) = 170 mm. Writing area height = 297 - 2(15 + 5) = 257 mm. Available height below the first baseline offset = 257 - 10 = 247 mm. Number of full 8 mm intervals = 247 divided by 8 = 30 full intervals with 7 mm remaining. So 30 intervals fit, giving 31 baselines if the first baseline is counted.

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Original tasks 1, 2, 3 / complete keys

Task 1

A sheet is 150 mm wide and 200 mm high. Use a hypothetical 10 mm border margin and a 4 mm inner gap. Calculate the writing area width and height.

Answer: Width = 150 - 2(10 + 4) = 122 mm. Height = 200 - 2(10 + 4) = 172 mm.

Reason: Subtract the border margin and inner gap from each side, so each dimension loses twice the sum of margin and gap.

Check: Add the two side losses back to each result: 122 + 28 = 150 and 172 + 28 = 200.

Task 2

A writing area is 120 mm high. The first baseline is 8 mm below the top, and lines are spaced at a hypothetical 6 mm. How many full intervals fit below the first baseline?

Answer: Available height = 120 - 8 = 112 mm. 112 divided by 6 = 18 full intervals with 4 mm remaining.

Reason: Subtract the top offset from the writing area height, then divide by the line interval and take the whole number.

Check: Multiply 18 by 6 to get 108 mm, add the 8 mm offset to get 116 mm, which is less than 120 mm; the remaining 4 mm confirms the count.

Task 3

A simple frame uses an outer line 12 mm from the paper edge and an inner line 5 mm from the outer line. What is the distance from the paper edge to the inner line, and what is the gap between the two lines?

Answer: Distance from paper edge to inner line = 12 + 5 = 17 mm. Gap between lines = 5 mm.

Reason: The inner line is measured from the outer line, so add the two distances to reach the paper edge.

Check: Measure inward 17 mm from the edge and confirm the outer line sits at 12 mm, leaving a 5 mm gap.

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Original tasks 4 / complete keys

Task 4

Two pages should match within a hypothetical 1 mm tolerance. Page one has border margins of 15, 15, 16, and 15 mm. Page two has 15, 16, 15, and 15 mm. Do they match within tolerance, and what should you adjust?

Answer: Yes, each side differs by at most 1 mm, so they match within the stated tolerance. Adjust the 16 mm side on either page to 15 mm if exact matching is preferred.

Reason: Compare corresponding sides and find the largest difference; it is 1 mm, which equals the tolerance.

Check: Subtract each pair of matching sides and confirm no difference exceeds 1 mm.

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Worked example, Task 1, Task 2, Task 3, Task 4 / Separate answer sheet: worked calculations, check methods, rubric notes

Answers kept apart from worksheet; check methods and rubric notes printed automatically.

Task	Answer	Check method
1	Width = 150 - 2(10 + 4) = 122 mm; Height = 200 - 2(10 + 4) = 172 mm.	122 + 28 = 150; 172 + 28 = 200.
2	Available height = 120 - 8 = 112 mm; 112 ÷ 6 = 18 full intervals with 4 mm remaining.	18 × 6 = 108; 108 + 8 = 116 < 120; remainder 4 mm.
3	Paper edge to inner line = 12 + 5 = 17 mm; gap = 5 mm.	Measure inward 17 mm; outer line at 12 mm leaves 5 mm gap.
4	Yes, each side differs by at most 1 mm; adjust the 16 mm side to 15 mm for exact matching.	Subtract matching sides; no difference exceeds 1 mm.

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Source rubric / reflection

- [ ] Paper size and border margins are measured and recorded.
- [ ] Writing area is rectangular, square-cornered, and clear of the border.
- [ ] Border style is either simple frame or corner motif and does not intrude on the writing area.
- [ ] Ruled line interval is consistent and checked on both pages.
- [ ] Second page matches paper size, border, and writing area but remains blank inside.
- [ ] Handwriting guidance uses baseline-to-midline x-height and allows valid style variation.
- [ ] Measurements and tolerances are stated as hypothetical examples where chosen.

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