Combined Notebook Page: Graph, Ruled, and Staff Zones

Original tasks 1, 2, 3 / complete keys

Task 1

A hypothetical page is 200 mm wide and 280 mm tall with 10 mm margins and a 15 mm header. You choose graph 80 mm, ruled 80 mm, and staff 75 mm. Do the zones fit the body height?

Answer: Yes. Usable height is 280 minus 20 equals 260 mm; body height is 260 minus 15 equals 245 mm. Zone sum is 80 plus 80 plus 75 equals 235 mm, which is 10 mm less than 245 mm, so the zones fit with 10 mm spare.

Reason: Subtract top and bottom margins from page height, subtract the header, then add the three zone heights and compare.

Check: Recompute 280 minus 20 minus 15 equals 245; 80 plus 80 plus 75 equals 235; 245 minus 235 equals 10 mm spare.

Task 2

In a 72 mm graph zone with 4 mm square cells, how many full rows fit and what remainder is left?

Answer: 18 full rows with no remainder.

Reason: Divide zone height by cell size: 72 divided by 4 equals 18 exactly.

Check: Multiply 18 by 4 to get 72 mm, matching the zone height.

Task 3

A ruled zone is 85 mm tall with 7 mm line spacing. How many full lines fit and what remainder is left?

Answer: 12 full lines with 1 mm remainder.

Reason: 85 divided by 7 equals 12 with remainder 1, since 12 times 7 equals 84.

Check: Add 84 and 1 to get 85 mm, matching the zone height.

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Original tasks 4 / complete keys

Task 4

A staff zone is 60 mm tall. A five-line staff uses 2 mm spacing, so the staff is 8 mm tall. If you leave 12 mm above and 12 mm below, how much clearance remains unassigned?

Answer: 28 mm remains unassigned.

Reason: Subtract staff height and the two clearance bands from the zone height: 60 minus 8 minus 12 minus 12 equals 28 mm.

Check: Add 8 plus 12 plus 12 plus 28 to get 60 mm, matching the zone height.

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Source rubric / reflection

- [ ] Zone heights sum exactly to the body height after margins and header.
- [ ] Grid rows and columns and ruling lines are counted with remainders stated.
- [ ] Staff has five lines with stated spacing and adequate clearance.
- [ ] Each zone is labeled and the multi-subject note appears in the header.
- [ ] Convention states x-height as baseline to midline and accepts valid letter styles.
- [ ] Arithmetic uses consistent units and is checkable.
- [ ] Valid alternatives such as different spacing or clef type are accepted when stated.

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