Browser Window Drawing: Frame, Toolbar, Tab, and Address Bar

Original tasks 1, 2, 3 / complete keys

Task 1

Using a 10 by 8 grid frame, place a 10 by 2 toolbar and a 6 by 1 address bar. How many squares remain for the page area?

Answer: 6 squares.

Reason: Frame height 8 minus toolbar height 2 equals page height 6. The address bar is inside the toolbar, so it does not change page height.

Check: Count frame height squares, subtract toolbar height squares, and confirm the result equals the page area height.

Task 2

A tab is 3 squares wide and 1 square tall, placed 1 square from the left frame edge. The frame is 9 squares wide. How many squares from the tab's right edge to the right frame edge?

Answer: 5 squares.

Reason: Tab starts at 1, ends at 1+3=4. Frame width 9 minus 4 equals 5 squares remaining.

Check: Add left offset, tab width, and remaining width: 1+3+5=9, matching frame width.

Task 3

You draw a toolbar 12 squares wide and 3 squares tall inside a 12 by 10 frame. What page height remains, and is the toolbar proportionally taller or shorter than a 2-square toolbar in a 9-square frame?

Answer: Page height is 7 squares. The 3-square toolbar is proportionally taller: 3/10 versus 2/9.

Reason: 10-3=7. Compare ratios 3/10=0.30 and 2/9≈0.22; 0.30 is larger.

Check: Compute page height by subtraction and compare fractions with a common denominator or decimal approximation.

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Original tasks 4 / complete keys

Task 4

An address bar is 7 squares wide inside a toolbar 10 squares wide. If centered, how many squares are on each side?

Answer: 1.5 squares on each side.

Reason: 10-7=3 squares total margin; half is 1.5 squares per side.

Check: Add margins and address bar width: 1.5+7+1.5=10, matching toolbar width.

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Source rubric / reflection

- [ ] Frame is a closed rectangle with opposite sides parallel.
- [ ] Toolbar strip is inside the frame and spans the frame width.
- [ ] Tab is attached above the toolbar to the top frame edge according to the stated convention.
- [ ] Address bar is inside the toolbar and does not exceed toolbar width.
- [ ] Construction guides are distinguishable from final edges.
- [ ] Labels are legible and inside their shapes.
- [ ] Proportions match the chosen grid counts or a clearly stated alternative.

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