Draw a Gaming Setup: Desk, Monitor, Chair in One Scene

Original tasks 1, 2, 3 / complete keys

Task 1

Draw a desk 50 units wide and 25 units tall with a monitor 20 units wide and 12 units tall centered on it. Add a chair with seat height 15 units in front. Check that the monitor width is less than the desk width and the seat is lower than the desk top.

Answer: A sketch with a parallelogram desk top, two front legs to the floor, a centered monitor rectangle with stand base on the desk, and a chair in front with seat below the desk top.

Reason: The desk width 50 is greater than monitor width 20, and seat height 15 is less than desk height 25, so the proportions are consistent.

Check: Measure the drawn desk width and monitor width; confirm desk is wider. Measure seat height and desk height; confirm seat is lower.

Task 2

Draw the same desk and chair as above but tilt the monitor screen 5 degrees to the right. Keep the stand base on the desk top and the screen fully visible above the chair back.

Answer: A sketch with a tilted monitor rectangle, stand base still on the desk, and chair back not covering the screen.

Reason: Tilting changes the screen angle but not its width or height, so the monitor still fits on the desk and remains visible.

Check: Check that the bottom of the stand base touches the desk top line and that no part of the chair back overlaps the screen rectangle.

Task 3

Draw a gaming setup with a desk 70 units wide and 35 units tall, a monitor 28 units wide and 16 units tall, and a chair with a tall backrest 30 units high. Place the chair slightly to the left so the monitor stays visible. Check all overlaps.

Answer: A sketch with the chair shifted left, seat below the desk top, and the monitor screen unobstructed.

Reason: Shifting the chair left prevents the tall backrest from covering the centered monitor while keeping the chair in front of the desk.

Check: Trace a vertical line from the monitor screen down; confirm it does not cross the chair backrest. Confirm seat height is less than desk height.

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Original tasks 4 / complete keys

Task 4

Draw a setup where the desk is 40 units wide and 20 units tall, the monitor is 18 units wide and 10 units tall, and the chair seat is 12 units high. Add a simple star base with wheels. Check that the chair base stays within the floor area and the monitor is centered.

Answer: A sketch with a centered monitor, a chair in front with a star base, and all parts within the floor baseline.

Reason: The smaller desk still fits the monitor because 18 is less than 40, and the seat height 12 is less than desk height 20.

Check: Measure the distance from the center line to each side of the monitor; they should be equal. Check that the star base does not extend beyond the floor baseline.

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Source rubric / reflection

- [ ] Desk top is drawn as a parallelogram with a front edge parallel to the floor baseline.
- [ ] Desk legs reach the floor baseline and the desk width is greater than the monitor width.
- [ ] Monitor is centered and its stand base sits fully on the desk top.
- [ ] Chair is in front of the desk, seat lower than the desk top, and backrest does not hide the monitor screen.
- [ ] Construction lines are light and final outlines are clean; labels use the stated x-height convention if present.

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