Draw a Four-Person Base with Grouped Figure Guides

Original tasks 1, 2, 3 / complete keys

Task 1

A hypothetical page is 24 cm wide. You want four anchors with 4 cm gaps, starting 3 cm from the left edge. Where are the four anchor positions?

Answer: 3 cm, 7 cm, 11 cm, and 15 cm from the left edge.

Reason: Start at 3 cm and add 4 cm for each subsequent anchor: 3, 7, 11, 15. The last anchor is 15 cm, leaving 9 cm to the right edge, which is acceptable for a hypothetical layout.

Check: Add the gaps: 3 + 4 + 4 + 4 = 15 cm for the last anchor. Confirm each gap is 4 cm by subtracting adjacent positions.

Task 2

A ground line is 5 cm from the bottom of a hypothetical 18 cm tall page. The head-top guide is 11 cm above the ground line. How far is the guide from the top of the page?

Answer: 2 cm from the top.

Reason: The ground line is 5 cm from the bottom, so it is 18 - 5 = 13 cm from the top. The guide is 11 cm above the ground line, so it is 13 - 11 = 2 cm from the top.

Check: Add the distances downward: 2 cm top margin + 11 cm figure height + 5 cm bottom margin = 18 cm total.

Task 3

You draw four figures with head circles of 2 cm diameter. The head-top guide is 10 cm above the ground line. What is the distance from the bottom of each head circle to the ground line?

Answer: 8 cm.

Reason: The head top touches the guide at 10 cm above the ground line. The head circle is 2 cm tall, so its bottom is 10 - 2 = 8 cm above the ground line.

Check: Add the head diameter to the remaining distance: 2 cm + 8 cm = 10 cm, matching the guide height.

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Original tasks 4 / complete keys

Task 4

Four anchors are at 2 cm, 6 cm, 10 cm, and 14 cm from the left edge. You shift the last two anchors right by 1 cm each. What are the new gaps between adjacent anchors?

Answer: 4 cm, 5 cm, and 4 cm.

Reason: New positions are 2, 6, 11, and 15 cm. Gaps: 6 - 2 = 4 cm; 11 - 6 = 5 cm; 15 - 11 = 4 cm. Wait, recalculate: 11 - 6 = 5 cm and 15 - 11 = 4 cm, so the gaps are 4 cm, 5 cm, and 4 cm.

Check: Subtract adjacent positions in order: 6-2=4, 11-6=5, 15-11=4. The sum of gaps 4+5+4=13 cm equals 15-2=13 cm.

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Source rubric / reflection

- [ ] Ground line is present and all four feet sit on it.
- [ ] Four anchors are marked and evenly spaced within the chosen page.
- [ ] All four head tops align with the head-top guide.
- [ ] Each figure uses a distinct pose variant.
- [ ] At least one overlap cue is shown with the back figure's lines stopping at the front outline.
- [ ] No head is fully hidden by another figure.
- [ ] Optional lettering label follows the baseline-to-midline x-height convention; any legible style is acceptable.

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