Draw a Simple Bone on Graph Paper: Grid Outline with Joint Ends

Original task 1 / independent drawing and calculation

Task 1

Draw a bone with a shaft three cells long and two cells wide. Each joint end extends two cells above and two cells below the shaft and two cells outward from the shaft end. What is the total length?

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 2 / independent drawing and calculation

Task 2

A practice box is ten cells tall. A bone has joint ends that extend two cells above and two cells below a two-cell shaft. Assume the bone is centered vertically with equal top and bottom margins. How many cells of margin are above and below the bone?

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 3 / independent drawing and calculation

Task 3

You draw a bone eight cells long in a twelve-cell-wide box. How many cells of margin are on each side if it is centered?

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 4 / independent drawing and calculation

Task 4

A bone outline has a shaft two cells wide. At the left joint the shaft measures two cells, in the middle it measures three cells, and at the right it measures two cells. Is the outline valid under the convention?

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

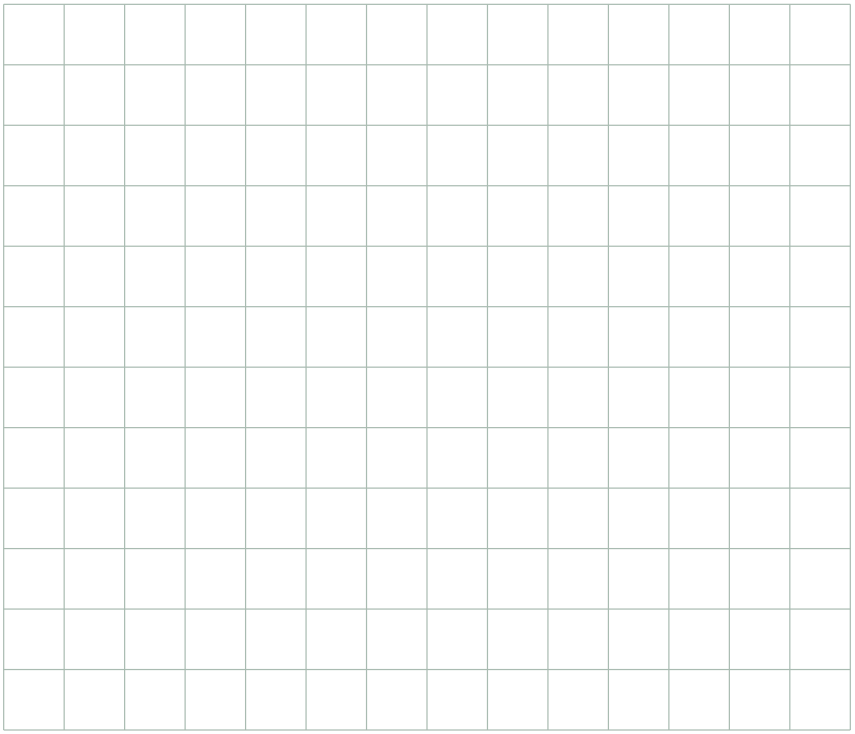
Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.

Draw a Simple Bone on Graph Paper: Grid Outline with Joint Ends

Blank square grid for drawing the bone

Actual source-bound component. Original question values and separate answer keys remain unchanged.

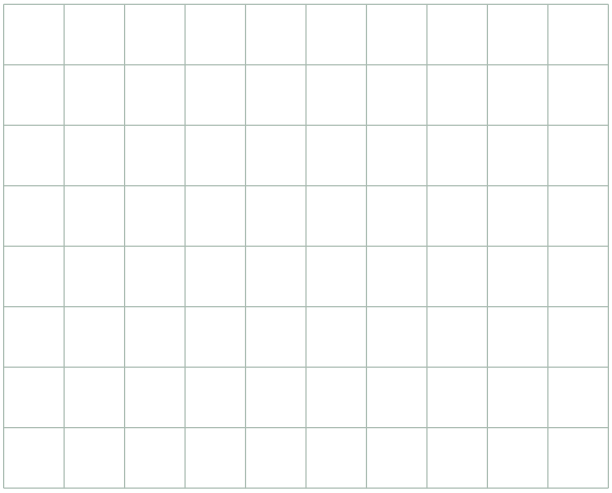


14 columns × 12 rows; 8 mm square cells; actual size at 100% printing.

Draw a Simple Bone on Graph Paper: Grid Outline with Joint Ends

Blank square grid for drawing and counting the bone outline

Actual source-bound component. Original question values and separate answer keys remain unchanged.



10 columns × 8 rows; 8 mm square cells; actual size at 100% printing.