Scale-Mail Armor on a Character: Layering and Joint Construction

Original task 1 / independent drawing and calculation

Task 1

On a 12 cm tall figure, draw a shoulder row of five scales 1 cm wide. The next row is offset by half a scale. If the second row is bounded by the same left and right edges as the first row, how many scales are fully visible in row 2, and what is the offset in centimeters?

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.

Scale-Mail Armor on a Character: Layering and Joint Construction

Original task 2 / independent drawing and calculation

Task 2

A knee joint is marked 6 cm from the hip on a hypothetical 15 cm leg. Rows are 1.5 cm apart. How many full rows fit above the knee, and where do you place the gap?

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.

Scale-Mail Armor on a Character: Layering and Joint Construction

Original task 3 / independent drawing and calculation

Task 3

You draw 10 scales across a 10 cm row. The next row is offset by half a scale and keeps the same left and right boundaries. If each scale is 1 cm wide, what total width does the second row cover, and how many scales are fully visible?

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.

Scale-Mail Armor on a Character: Layering and Joint Construction

Original task 4 / independent drawing and calculation

Task 4

A wrist joint is 3 cm from the elbow. Rows are 1 cm apart. Draw rows up to the wrist, then add one diagonal scale across a 0.5 cm gap. How many full rows fit before the gap, and what is the gap width in centimeters?

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.