Swords on Graph Paper: Grid Silhouette and Shading

Original task 1 / independent drawing and calculation

Task 1

Plot a sword with total length 12 squares, blade length 8 squares, blade width 2 squares, guard width 6 squares, guard thickness 1 square, grip length 3 squares, and tip length 1 square. The given numbers do not sum to the stated total; identify the mismatch, choose one corrected dimension, and plot the corrected sword. Then check the arithmetic and guard symmetry.

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.

Swords on Graph Paper: Grid Silhouette and Shading

Original task 2 / independent drawing and calculation

Task 2

A drawing has blade width 3 squares and guard width 8 squares. State the ratio. Plot a symmetric guard by placing the blade centerline on a grid line so the guard extends 4 squares on each side; count squares to verify symmetry. Then shade a blade of length 6 squares and width 3 squares with upper-left light and count tones.

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.

Swords on Graph Paper: Grid Silhouette and Shading

Original task 3 / independent drawing and calculation

Task 3

Plot a tapered blade of length 7 squares that narrows from 3 squares at the guard to 1 square at the tip, with the width decreasing by 1 square at counted positions: width 3 for the first 3 squares, width 2 for the next 3 squares, and width 1 for the final square. Use a guard 5 squares wide and 1 square thick, and a grip 2 squares long. The target total length is 10 squares. Check total length and describe shading.

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.

Swords on Graph Paper: Grid Silhouette and Shading

Original task 4 / independent drawing and calculation

Task 4

A sword drawing has 10 light cells, 5 mid cells, and 3 dark cells. The stated light direction is upper left. Propose one correction if the lower-right guard edge is light, and state the new tone counts after changing 2 cells to dark.

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.

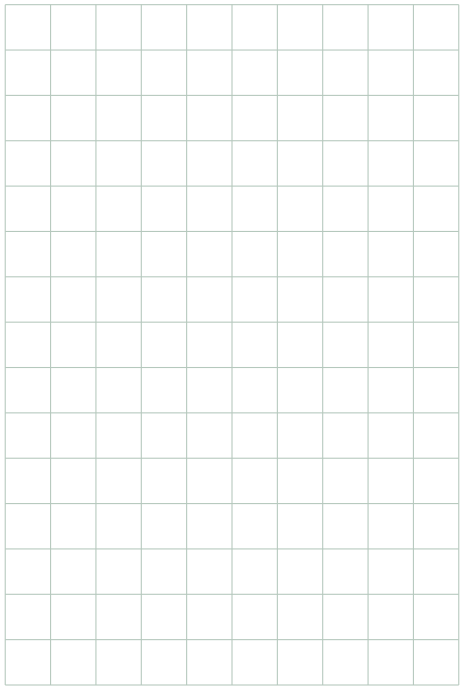
Full drawing sheet / reusable blank workspace

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.

Swords on Graph Paper: Grid Silhouette and Shading

Task 1 / practice

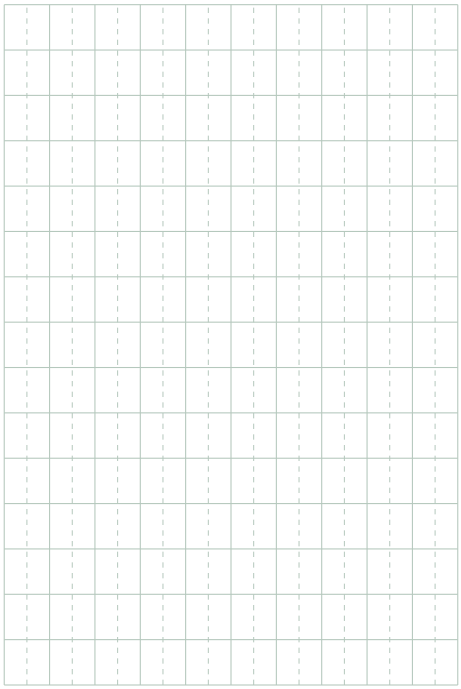
Counted sword schematics / chosen unit = 6 mm / upper-left light convention



Swords on Graph Paper: Grid Silhouette and Shading

Task 2 / practice

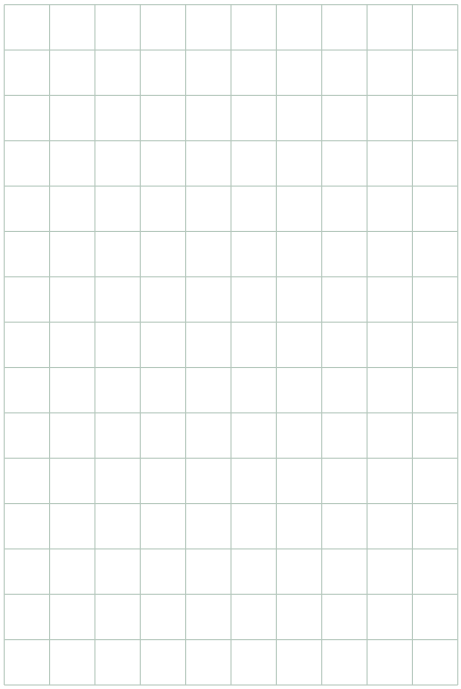
Counted sword schematics / chosen unit = 6 mm / upper-left light convention



Swords on Graph Paper: Grid Silhouette and Shading

Task 3 / practice

Counted sword schematics / chosen unit = 6 mm / upper-left light convention



Swords on Graph Paper: Grid Silhouette and Shading

Task 4 / practice

Counted sword schematics / chosen unit = 6 mm / upper-left light convention

