Water Strider Drawing: Leg Layout, Body Segments, and Ripple Cues

Original task 1 / independent drawing and calculation

Task 1

Draw only the body axis and three body regions on a 10 cm horizontal line. Mark head as the front 1.2 cm, thorax as the next 2.5 cm, and abdomen as the remaining 6.3 cm. Add five abdomen segment lines and label the three regions.

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

Starting from a finished body axis, add six legs in three pairs. Use hypothetical angles: front 30 degrees forward, middle 90 degrees outward, rear 45 degrees backward. Mark six tarsal dots on a level waterline and draw one centered horizontal ellipse under each dot.

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

Redraw one middle leg so its knee is clearly visible and its tarsal dot sits on the waterline. Then add two concentric ripple ellipses around that dot, keeping them lighter than the leg line.

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

Evaluate a practice drawing that has all six legs at the same angle and circular ripples under each foot. List two specific fixes and redraw one leg pair and one ripple to show the corrections.

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.