Dragon Orthographic Drawing: Three-View Projection Lesson

Original task 1 / independent drawing and calculation

Task 1

A front view frame is 80 mm wide. The dragon head is 8 units wide and centered. The wing roots sit 5 units above baseline. State the left and right distances from midline to head edge, and describe where to project the wing-root height in the side view.

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 top view shows body length 14 units and wing span 12 units. The front view frame is 60 mm wide. If 1 unit equals 5 mm, what is the top view length in millimeters, and what should the top view width match?

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

A side view shows leg height 6 units and body depth 3 units. The front view baseline-to-midline distance is 4 units. Describe how to check that the side view height matches the front view height using projection lines.

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 student draws a top view wing span of 10 units but a front view wing-root span of 8 units. The unit value is 6 mm. What is the mismatch in millimeters, and what correction keeps the views consistent?

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.

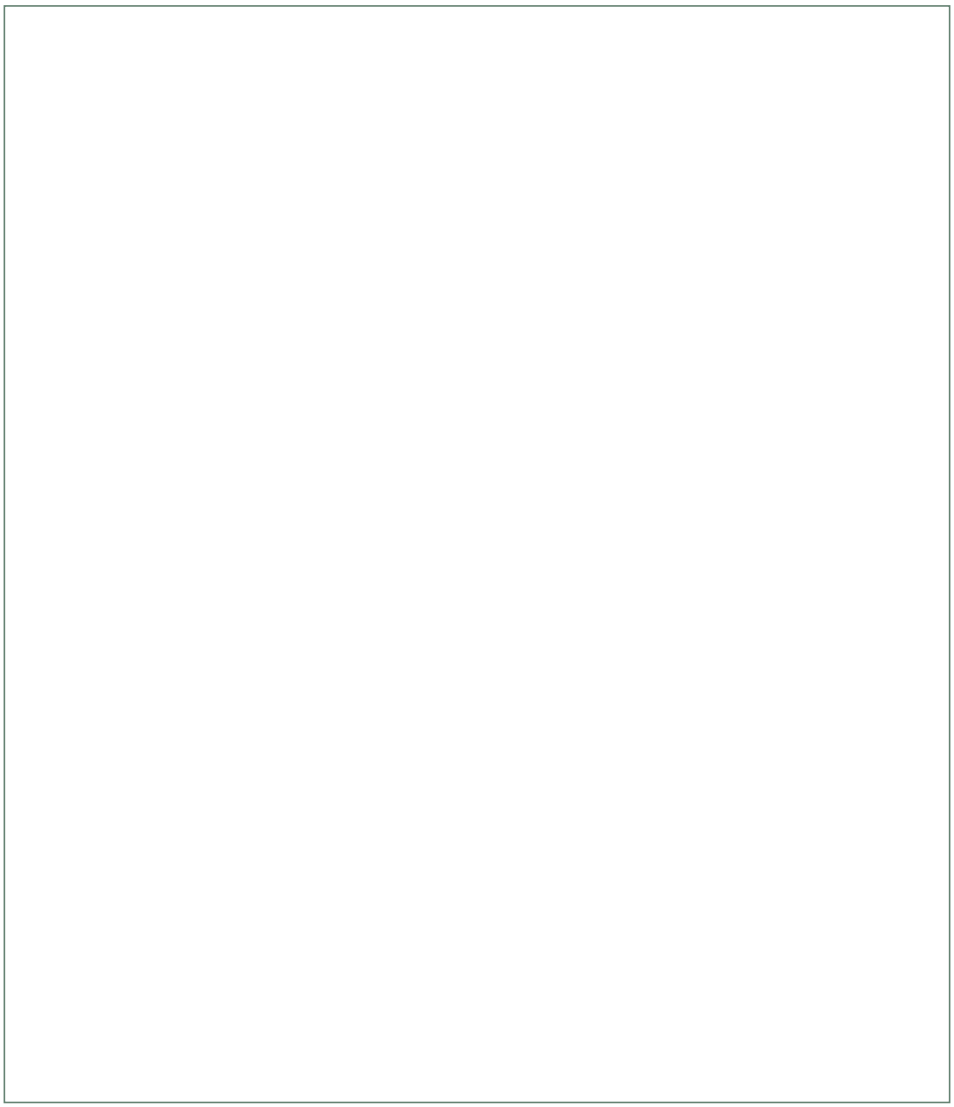
Full drawing sheet / reusable blank workspace

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.

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Task 1 / practice

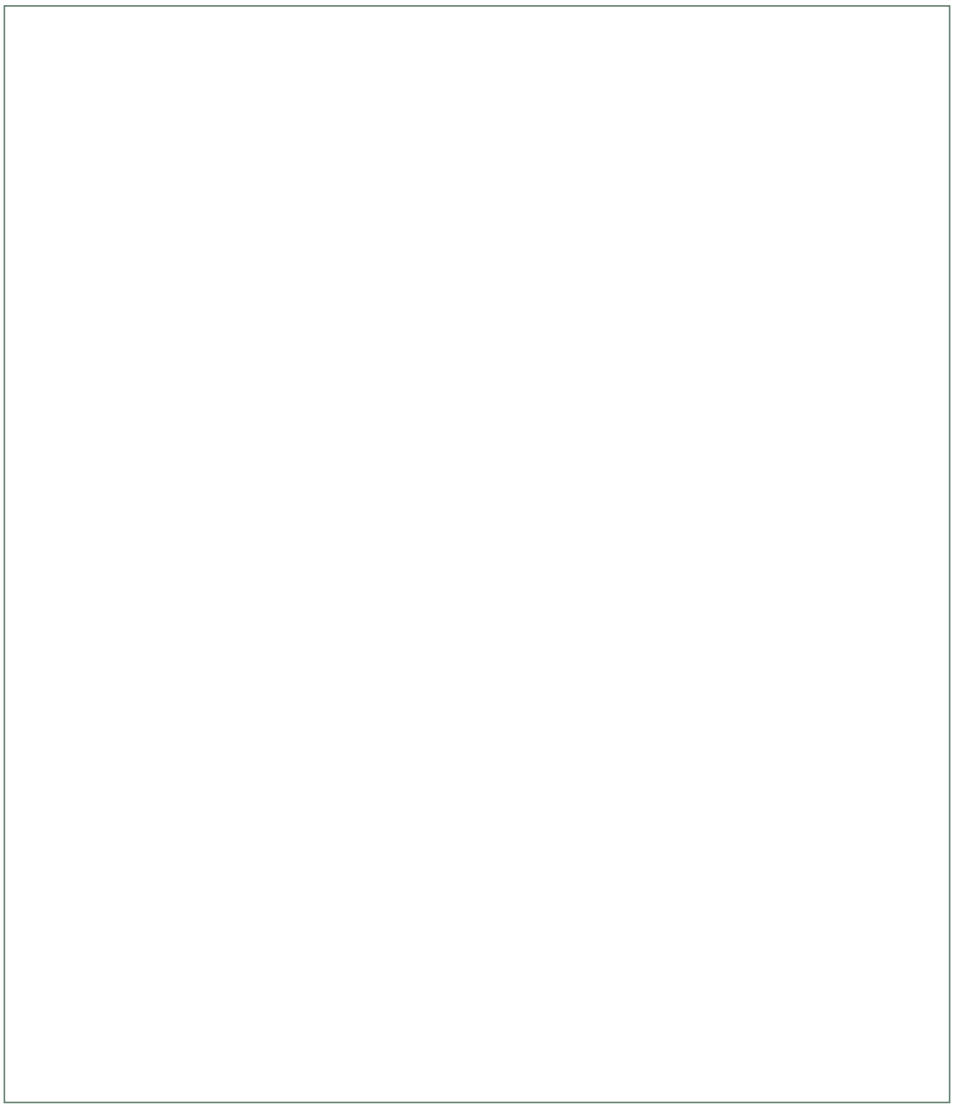
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Task 2 / practice

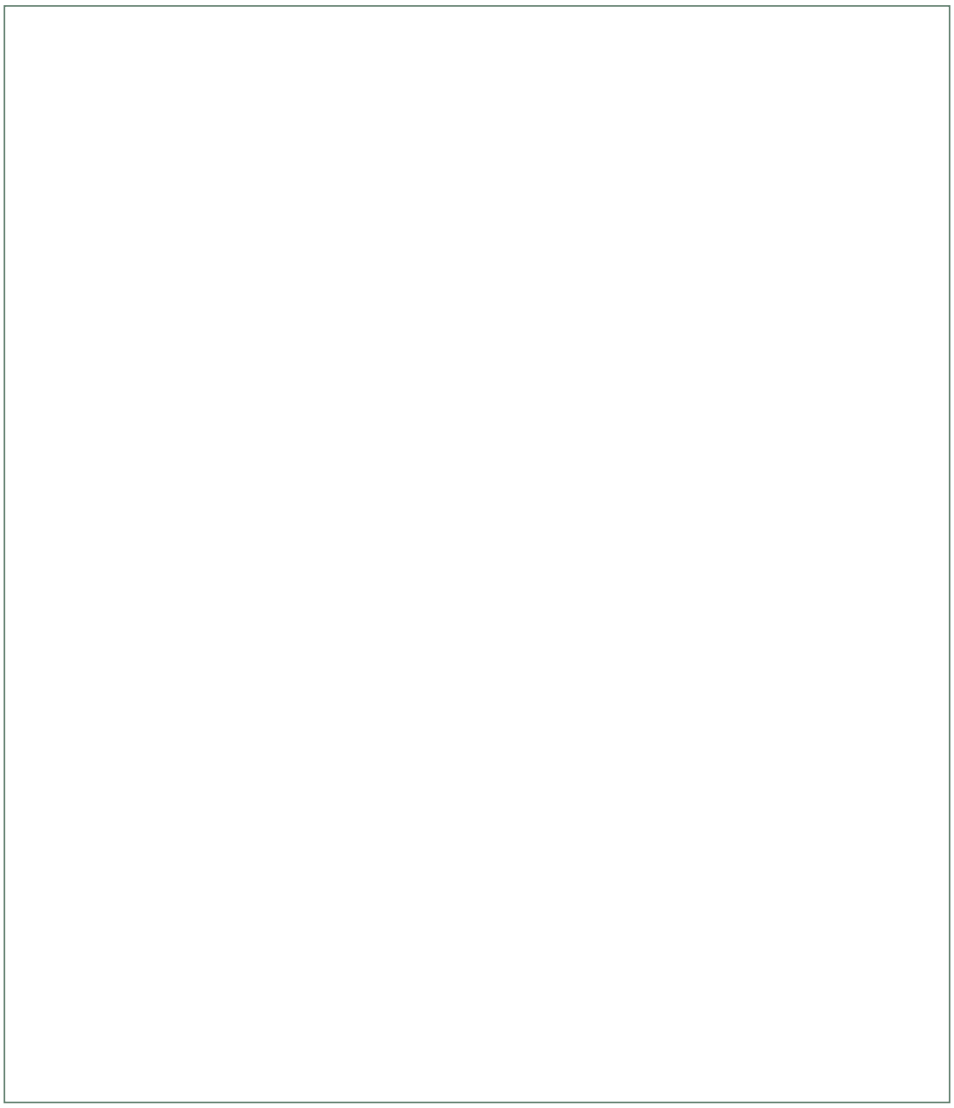
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Task 3 / practice

TASK 3 / A side view shows leg height 6 units and body depth 3 units. The front view baseline-to-midline distance is 4 units. Describe how to check that the side view height matches the front view height using projection lines.



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Task 4 / practice

TASK 4 / A student draws a top view wing span of 10 units but a front view wing-root span of 8 units. The unit value is 6 mm. What is the mismatch in millimeters, and what correction keeps the views consistent?

