How to Draw Dinosaur Skeletons and Silhouettes: A Structured Guide

Original task 1 / independent drawing and calculation

Task 1

Draw a bipedal dinosaur skeleton on a 12 cm spine line. Place the hip joint 4 cm behind the midpoint and the shoulder joint 4 cm in front. Draw three rib pairs, two hind legs, and two forelimbs. Then trace a silhouette with a 1 cm margin. Describe where the skull sits relative to the neck 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 2 / independent drawing and calculation

Task 2

A student draws a quadrupedal dinosaur skeleton with a 16 cm spine line. The midpoint is at 8 cm. The front shoulder joints are placed 5 cm in front of the midpoint, and the rear hip joints are placed 5 cm behind. The skull is 4 cm long, and the ribcage is 8 cm wide. Is the skull length consistent with the hypothetical guideline that skull length is about half the ribcage width? Show the arithmetic.

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

Draw a dinosaur skeleton with a spine line of 10 cm. Mark the midpoint. Draw two rib pairs, one on each side of the midpoint. Draw a tail line 3 cm long from the midpoint backward and a neck line 3 cm long from the midpoint forward. Add a skull at the neck end and a pelvis at the hip area. Then draw a silhouette with a margin of 0.5 cm. Check whether the tail tip and skull center are both inside the silhouette.

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 skeleton and silhouette pair. The skeleton has a 14 cm spine line, a 5 cm skull, and a 7 cm ribcage width. The silhouette margin is 1 cm. The student claims the skull length is consistent with the hypothetical guideline that skull length is about half the ribcage width. Check the claim with arithmetic and state whether the pair can still be valid under the rubric.

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.