Orthographic Projection of a Mouse: Front, Top, and Side Views

Original task 1 / independent drawing and calculation

Task 1

A front view shows a head width of 6 cm and a body width of 4 cm. The body midline height is 3 cm. What should the head width and body width be in the top view, and what should the body height be 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.

Orthographic Projection of a Mouse: Front, Top, and Side Views

Original task 2 / independent drawing and calculation

Task 2

A student draws a top view with the snout pointing down and the tail pointing up. The front view is above the top view. Is this correct? Explain.

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.

Orthographic Projection of a Mouse: Front, Top, and Side Views

Original task 3 / independent drawing and calculation

Task 3

A side view is placed to the right of the front view. The student draws the head at the left of the side view and the tail at the right. Does the side view show the mouse facing toward or away from the front view? Explain using the placement of the views.

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.

Orthographic Projection of a Mouse: Front, Top, and Side Views

Original task 4 / independent drawing and calculation

Task 4

A front view has a head width of 5 cm and a body width of 3 cm. The top view has a head width of 5 cm and a body width of 4 cm. The side view has a body height of 2 cm, matching the front view. Identify the error and state the correction.

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

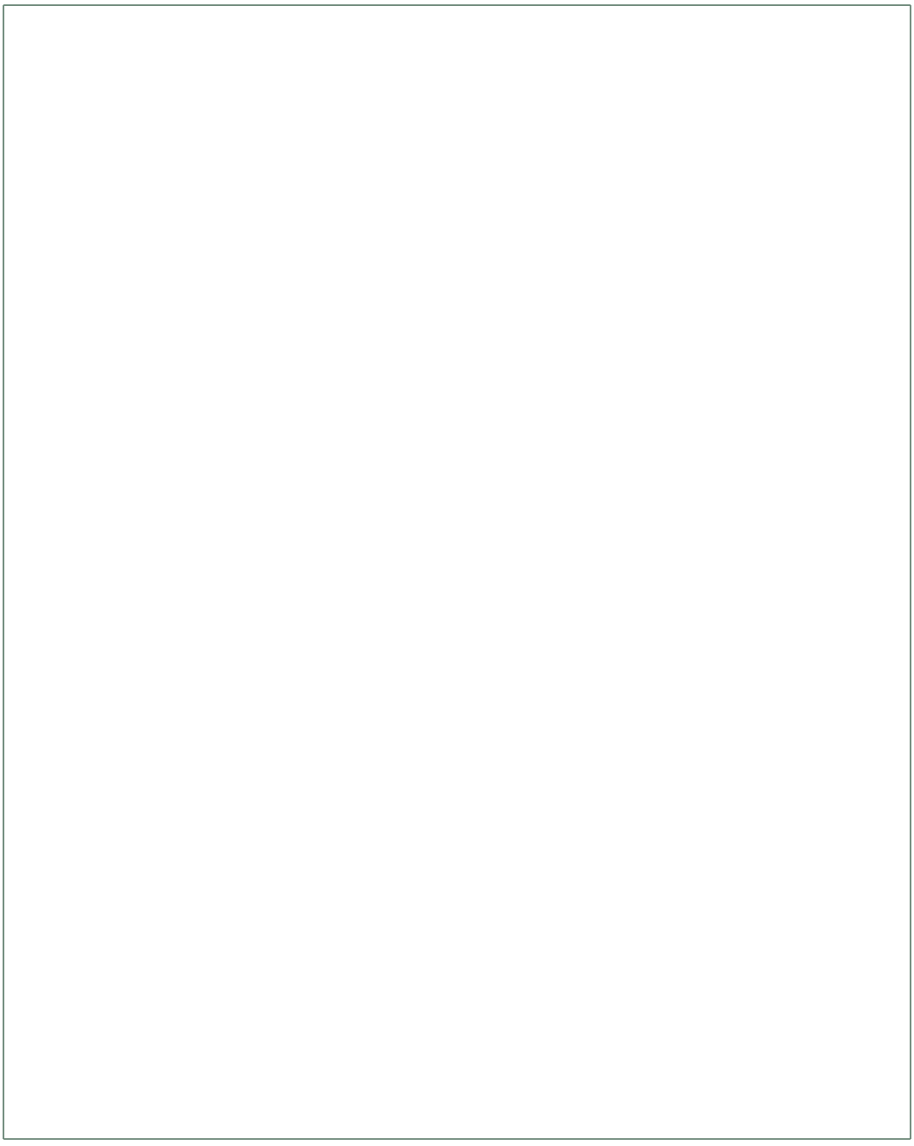
Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.

Orthographic Projection of a Mouse: Front, Top, and Side Views

Task 1 / practice

Mouse orthographic classroom views / labelled cm print 1:2 / H = BODY MIDLINE HEIGHT

Independent drawing area / record your own construction and checks.

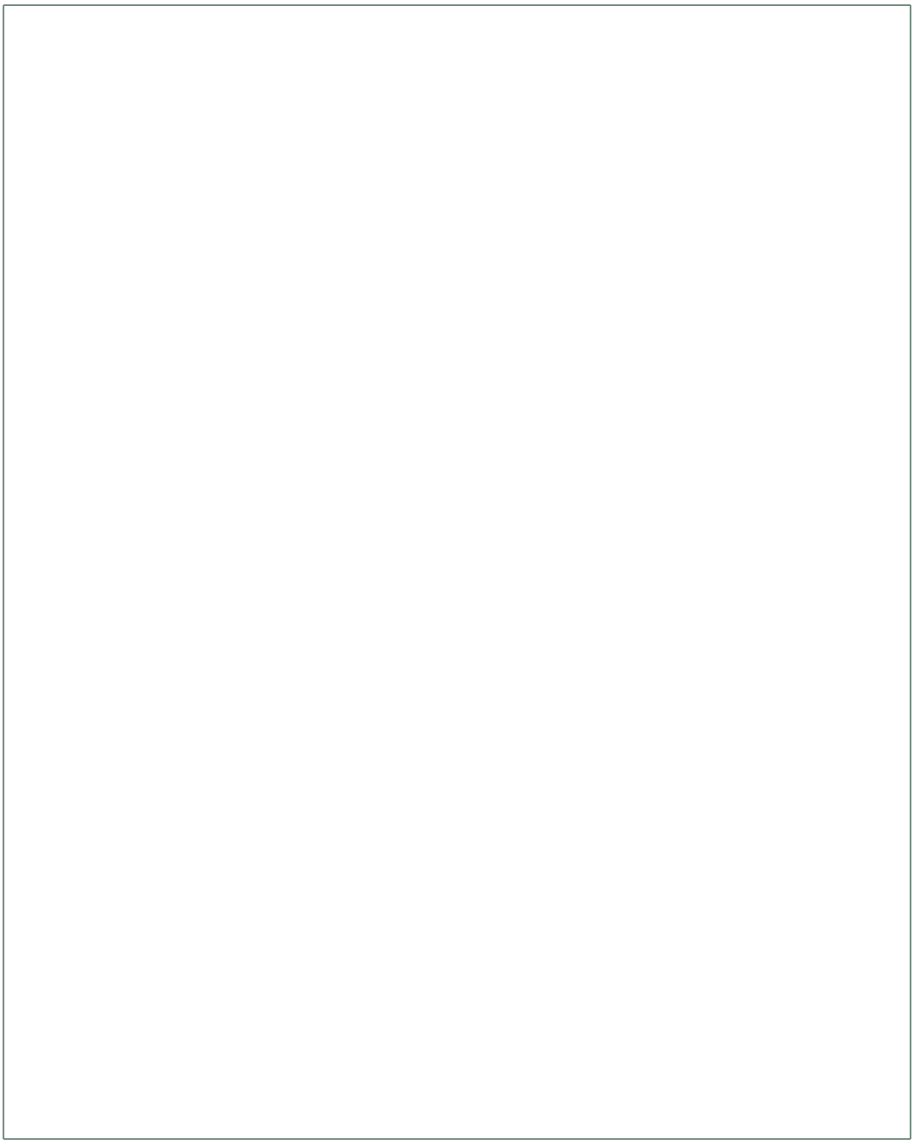


Orthographic Projection of a Mouse: Front, Top, and Side Views

Task 2 / practice

Mouse orthographic classroom views / labelled cm print 1:2 / H = BODY MIDLINE HEIGHT

Independent drawing area / record your own construction and checks.

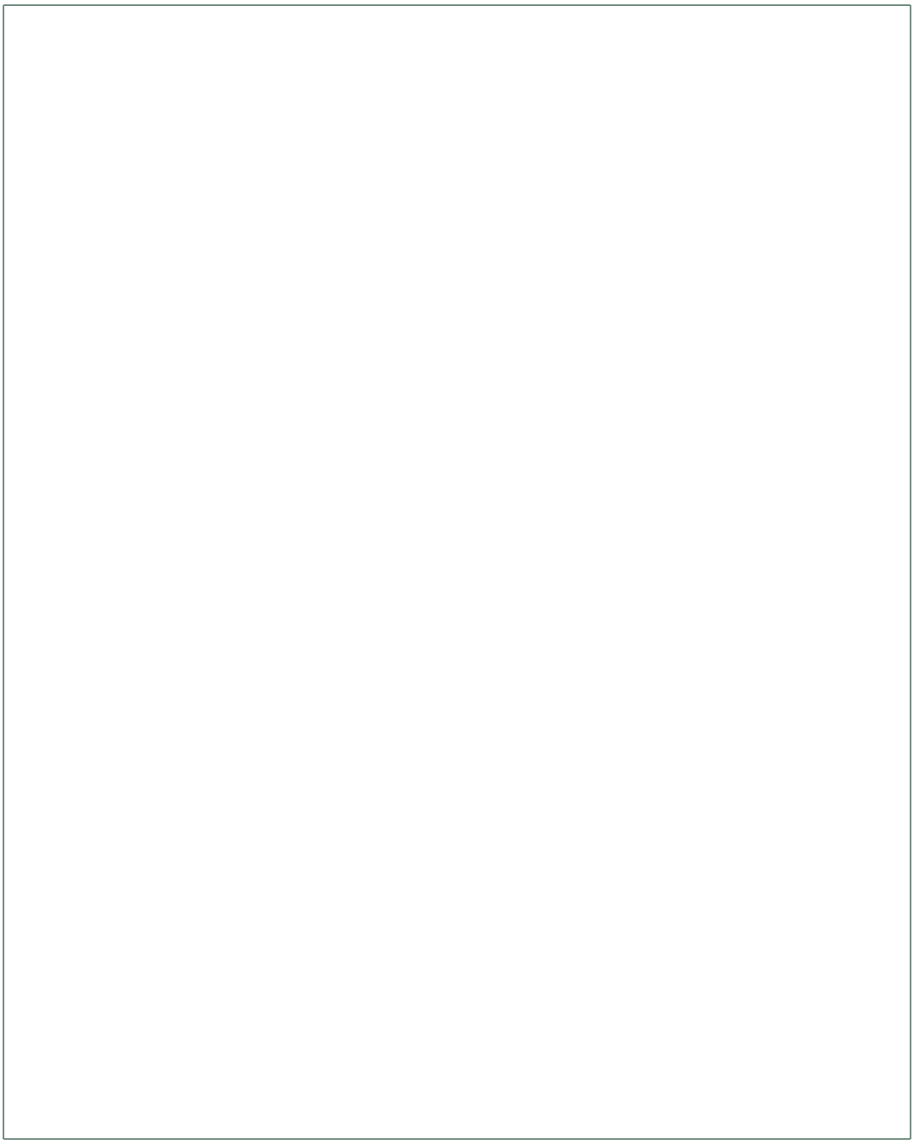


Orthographic Projection of a Mouse: Front, Top, and Side Views

Task 3 / practice

Mouse orthographic classroom views / labelled cm print 1:2 / H = BODY MIDLINE HEIGHT

Independent drawing area / record your own construction and checks.



Orthographic Projection of a Mouse: Front, Top, and Side Views

Task 4 / practice

Mouse orthographic classroom views / labelled cm print 1:2 / H = BODY MIDLINE HEIGHT

Independent drawing area / record your own construction and checks.

