Draw a Small Cross: Proportion and Shading Steps

Original task 1 / independent drawing and calculation

Task 1

Draw a small cross with a total vertical height of 6 cm, a crossing point 2 cm from the top, arm lengths of 1.5 cm each, and a bar width of 0.8 cm. State the horizontal width and check the ratio.

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 cross has a vertical height of 10 cm and a crossing point 4 cm from the top. Each arm is 2.5 cm. What is the horizontal width, and is the crossing point above the midpoint?

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.

Draw a Small Cross: Proportion and Shading Steps

Original task 3 / independent drawing and calculation

Task 3

Draw a small cross with a vertical height of 7 cm and a horizontal width of 3.5 cm. Choose a crossing point above the midpoint and a constant bar width of 0.7 cm. Describe where the shading should be darkest if light comes from the upper right.

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.

Draw a Small Cross: Proportion and Shading Steps

Original task 4 / independent drawing and calculation

Task 4

A student draws a cross with a vertical height of 9 cm, a crossing point 4.5 cm from the top, arm lengths of 2 cm each, and a bar width that is 1 cm at the top but 0.6 cm at the bottom. Identify two proportion problems and state how to fix them.

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.