Faceted Gemstone Drawing: Cut Shapes, Facet Layout and Highlight Placement

Original task 1 / independent drawing and calculation

Task 1

Draw an oval-cut gemstone with a long axis 80 mm and a short axis 50 mm on a 120 mm wide sheet. Place a centred oval table about one third of the girdle width and add radiating facet lines. Shade with light 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.

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Original task 2 / independent drawing and calculation

Task 2

Draw an emerald-cut gemstone as a clipped rectangle 70 mm by 50 mm with corner facets. Add a smaller centred clipped rectangle as the table and connect corresponding corners. Shade with light from the left and place one highlight on a long side facet.

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 round-cut gemstone with a girdle diameter of 60 mm. Mark a light direction from the top. Shade the pavilion with three values and the crown with two values, keeping the table lightest. Add a thin bright line along the lower girdle.

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

Draw any one of the three cut shapes and deliberately place one highlight on a dark facet. Then correct the drawing by moving that highlight to a light-facing facet and adjusting the shading so the light direction is 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.