Easy Disco Ball Drawing: Map Facets and Place Highlights

Original task 1 / independent drawing and calculation

Task 1

On a circle 8 cm across, mark six evenly spaced points on the horizontal center line. Draw longitude lines through them from top pole to bottom pole. Describe how the lines should curve near the equator.

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.

Easy Disco Ball Drawing: Map Facets and Place Highlights

Original task 2 / independent drawing and calculation

Task 2

A student places a single large white circle as the highlight on a faceted sphere. Explain why this weakens the disco ball effect and describe a better placement using three to five tiles.

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.

Easy Disco Ball Drawing: Map Facets and Place Highlights

Original task 3 / independent drawing and calculation

Task 3

Draw four latitude arcs above the equator and four below on a 10 cm circle. Describe the spacing rule and give one hypothetical spacing example in centimeters.

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.

Easy Disco Ball Drawing: Map Facets and Place Highlights

Original task 4 / independent drawing and calculation

Task 4

A finished drawing has grid lines extending outside the circle and shading covering two white highlight tiles. List two corrections and explain how each improves the disco ball effect.

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.