Draw a Turtle Shell: Dome Geometry and Scute Pattern

Topic reference / ordinary illustration



Ordinary topic reference. Hypothetical dimensions in the four tasks are supplied in their own text; this illustration is not their measured answer.

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Worked example / complete source key

A shell is 10 cm wide and 6 cm tall. The rim band is 2 cm wide. Draw a top-down outline, mark a central row of three scutes, and state the center height check.

Answer: Draw a 10 cm baseline with rim points at 0 cm and 10 cm. Mark the dome top at 6 cm above the midpoint. The rim band is 2 cm wide, so the inner pattern area is 6 cm wide. Mark three central scutes along the center line, each about 2 cm wide. Check that the center height is 6 cm and the two side heights are lower, confirming a smooth dome.