Draw a Wheel: Rim, Hub, and Spoke Layout Guide

Ordinary topic reference / separately checked pixels



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Original worked example / unchanged complete key

Prompt: Draw a wheel with rim radius 50 mm and hub radius 15 mm using 10 evenly spaced spokes. State the spoke spacing and check the hub-to-rim ratio.

Answer: Rim radius 50 mm, hub radius 15 mm, ratio 50:15 simplifies to 10:3, about 3.33:1. Spoke spacing is 360 divided by 10, which equals 36 degrees. Mark spoke positions at 0, 36, 72, 108, 144, 180, 216, 252, 288, and 324 degrees. Draw each spoke from hub edge to rim edge. Check: measure two adjacent angles and confirm they are close to 36 degrees within your marking accuracy.