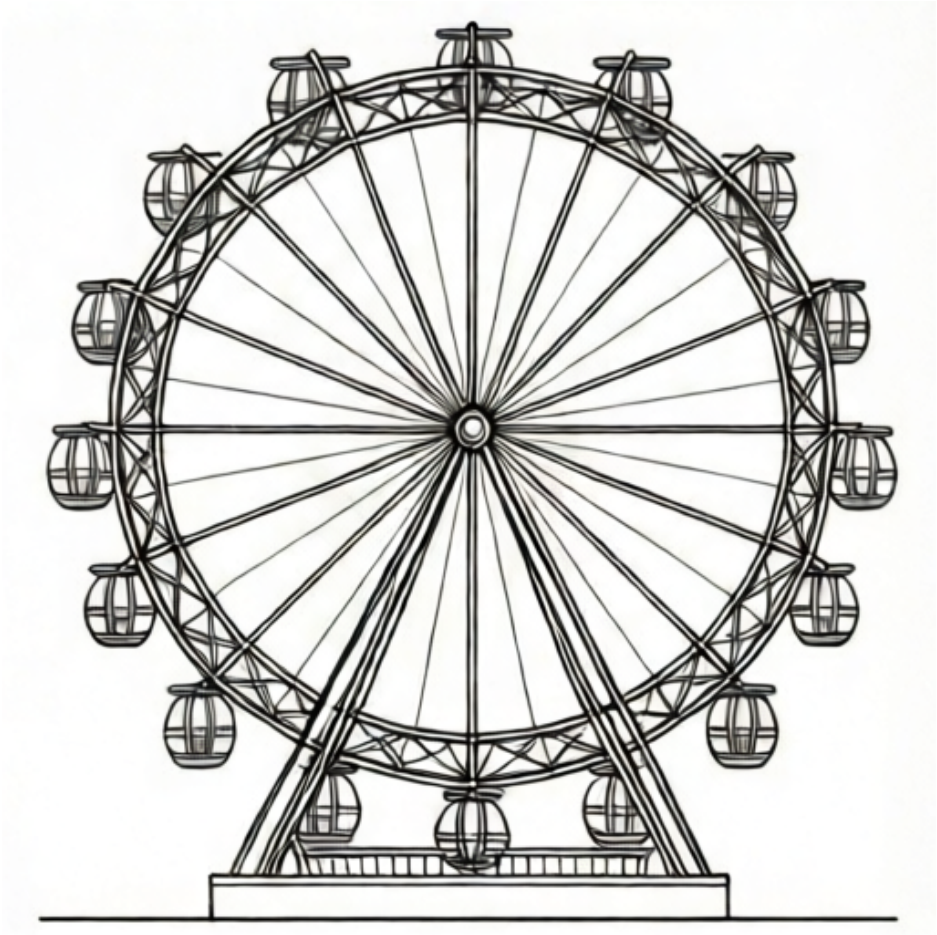
Draw a Ferris Wheel: Spoke Layout and Capsule Ring

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.

Draw a Ferris Wheel: Spoke Layout and Capsule Ring

Worked example / complete source key

A student draws a wheel with 12 capsules and a rim radius of 8 cm. They mark the top-right quadrant every 30 degrees. How many marks should appear in that quadrant from the top vertical line to the horizontal line, including both endpoints?

Answer: Four marks: at 0, 30, 60, and 90 degrees from the top vertical line. The 0-degree mark is the top point, and the 90-degree mark is the right point. The gap is 360 divided by 12, which equals 30 degrees.