Draw a Scaled Ball: Wrapping Overlapping Rows Around a Sphere

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 circle of radius 4 cm is drawn. Row guides are placed at the top, equator, and bottom. The equator row has scales about 1 cm wide; edge rows are about 0.6 cm wide. Describe how to place the first three scales of the equator row and one scale in the row above, including overlap and shading direction with light from upper left.

Answer: Draw the first scale centered on the vertical axis with its top edge just below the equator guide and its tip pointing down. Place the second scale to the right, overlapping the first slightly, and the third to the left, also overlapping. Offset the row above by about half a scale width so its scales sit between the equator scales. Shade under each top edge and darken the lower right of the ball gradually.