Sunflower Pencil Drawing: Radial Petal Layers and Shading

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 sunflower head has an outer radius of 5 cm and a seed disk radius of 2 cm. The back layer has 10 petals. Find the disk-to-head ratio and the angular spacing of the back layer.

Answer: Disk-to-head ratio is 2 divided by 5, which equals 0.4. Angular spacing is 360 divided by 10, which equals 36 degrees.

Reason: The ratio compares the disk radius to the head radius using the same units. Angular spacing assumes petals are evenly distributed around the center, so 360 degrees is divided by the number of petals.

Check: Multiply 0.4 by 5 to recover 2 cm. Multiply 36 degrees by 10 to recover 360 degrees.