Ladybug Symmetry Drawing: Mirror Halves and Spot Placement

Original tasks 1, 2 / independent work

Task 1

On a blank half-frame, the left half shows a body half-oval 5 cm tall and 2 cm wide from the axis, a head half-circle 1 cm tall centered on the axis, and two spots: spot A at 1 cm from the axis and 2 cm from the top with 0.5 cm diameter; spot B at 1.5 cm from the axis and 4 cm from the top with 0.5 cm diameter. Describe the right-half features and the mirrored spot positions.

Task 2

A student draws a ladybug with three spots on the left at vertical distances 1 cm, 3 cm, and 5 cm from the top, and only two spots on the right at 1 cm and 5 cm. All spots are 1 cm in diameter and none are on the axis. Identify the symmetry error and state the correction.

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Original tasks 3, 4 / independent work

Task 3

A ladybug body is 6 cm tall. A spot is centered on the axis at 2 cm from the top with a 1 cm diameter. Another spot is 2 cm from the axis on the left at 4 cm from the top with a 1 cm diameter. How many spots are on the right side, and what are their positions?

Task 4

A half-ladybug reference uses oval spots 1 cm wide and 0.5 cm tall. The left half has a spot at 1.5 cm from the axis and 3 cm from the top. A student mirrors it with a round spot 1 cm in diameter at 1.5 cm from the axis and 3 cm from the top. Is this a valid mirror? Explain using the convention and rubric.