Draw a Multi-Head Hydra: Body Mass and Head Placement

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 hydra body mass is 12 cm wide and 8 cm tall. Using the hypothetical convention that body width equals three head-widths, find the head width. Then state how many necks of one-third head width can fit if each origin needs 1 cm of shoulder zone.

Answer: Head width = 12 ÷ 3 = 4 cm. Neck thickness = 4 ÷ 3 ≈ 1.33 cm. Shoulder zone length is hypothetical at 8 cm; 8 ÷ 1 = 8 origins maximum. So up to 8 necks fit by this spacing rule.

Reason: Divide body width by three to get head width. Divide head width by three for neck thickness. Divide shoulder zone length by required spacing per origin.

Check: Multiply head width by three to recover body width: 4 × 3 = 12 cm. Multiply neck thickness by three to recover head width: 1.33 × 3 ≈ 4 cm.