Draw a Kitchen Food Scale with Dial, Platform, and Bowl

Ordinary topic reference / separately checked pixels



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Original worked example / unchanged complete key

Prompt: Draw a kitchen scale with a 10 cm wide by 3 cm tall base. Place an 8 cm by 3 cm platform ellipse 5 cm above the base line, and a 6 cm diameter dial centered 9.5 cm above the base line so its bottom meets the platform top. Add a shallow bowl with a 9 cm by 4 cm rim and a 6 cm by 2 cm base.

Answer: Base: rounded rectangle 10 by 3 cm. Platform: ellipse 8 by 3 cm centered 5 cm above the base line, so its underside is 5−1.5=3.5 cm above the line, 0.5 cm above the base top at 3 cm. Add two supports 1 cm wide and 3 cm apart center-to-center, spanning 3 to 3.5 cm (hypothetical drawing dimensions). Dial: circle 6 cm in diameter centered 9.5 cm above the base line, so its bottom is 9.5−3=6.5 cm and rests on the platform top (5+1.5=6.5 cm). Bowl: rim ellipse 9 by 4 cm and base ellipse 6 by 2 cm, centered on the platform. Draw the dial-face circle inset 1 cm from the housing rim, twelve ticks at 30-degree intervals, labels 0 to 5 on six consecutive lower-semicircle ticks from 4 o'clock through 9 o'clock inclusive, a pointer to 12 o’clock, and a small knob below. Shade the right side and underside with parallel hatching. Check symmetry within 0.5 cm and confirm the dial is circular.