Draw an Antique Balance Scale with Labeled Parts

Ordinary topic reference / separately checked pixels



Draw an Antique Balance Scale with Labeled Parts

Original worked example / unchanged complete key

Prompt: A student draws a scale on a 15 cm by 20 cm area. The base is 8 cm wide, the column is 6 cm tall, and the beam is 10 cm long. The left pan is 4.8 cm from the beam centre and the right pan is 5.2 cm from the centre. The pointer is drawn above the beam. List the corrections needed and the final check measurements.

Answer: Move the pointer below the beam centre. The pan distances differ by 0.4 cm, which is within a hypothetical 0.5 cm tolerance, so symmetry is acceptable. Record left 4.8 cm and right 5.2 cm. Confirm the beam is longer than the base and that all four labels point to the correct parts.