Draw a Balance Scale: Label Parts and Compare Masses

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

Draw a balance scale with three blocks in the left pan and five blocks in the right pan. Label beam, fulcrum, pan and pointer, and state which side is heavier.

Answer: The right pan is heavier because five blocks is more than three. The beam tilts down on the right, and the pointer leans right. All four parts are labeled close to their positions.

Reason: Compare block counts: 5 is greater than 3, so the right side has greater mass. The heavier end drops, so the beam tilts right and the pointer leans right.

Check: Recount the blocks in each pan, confirm the beam tilts toward the greater count, and confirm the pointer leans the same way. Check that each of the four parts has one label.