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Diagram illustrating two states of a system, labeled **a** and **b**.

- State **a** is labeled **heavier**.
- State **b** is labeled **lighter**.

Diagram illustrating two states of a system, labeled **a** and **b**.

- State **a** is labeled **lighter**.
- State **b** is labeled **heavier**.

Diagram illustrating two states of a system, labeled **a** and **b**.

- State **a** is labeled "lighter".
- State **b** is labeled "heavier".

The diagram shows a vertical line connecting the two states, indicating a transition or comparison between the two configurations.

**a**

lighter

**b**

heavier

Is mass of one grain of sand lighter or heavier than 1 grams?

a	b
heavier	lighter

Is mass of a baseball lighter or heavier than 145 milligrams?

a	b
heavier	lighter

**a**

heavier

**b**

lighter