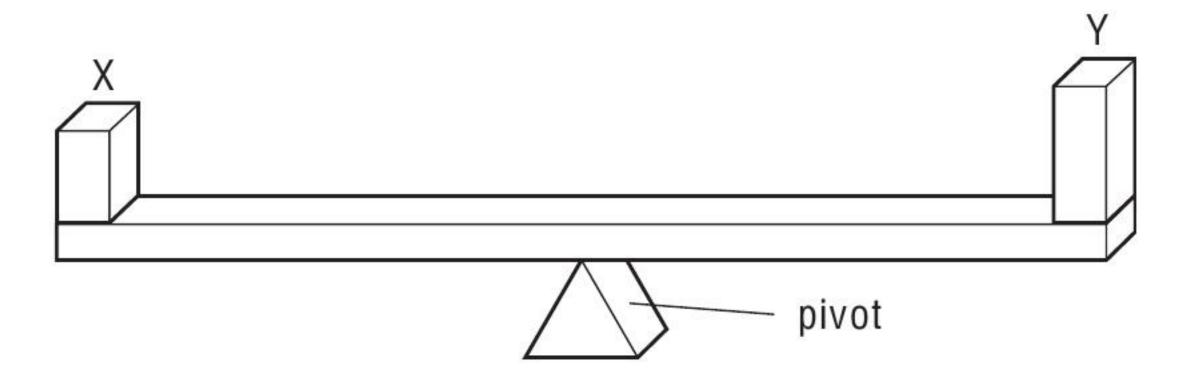
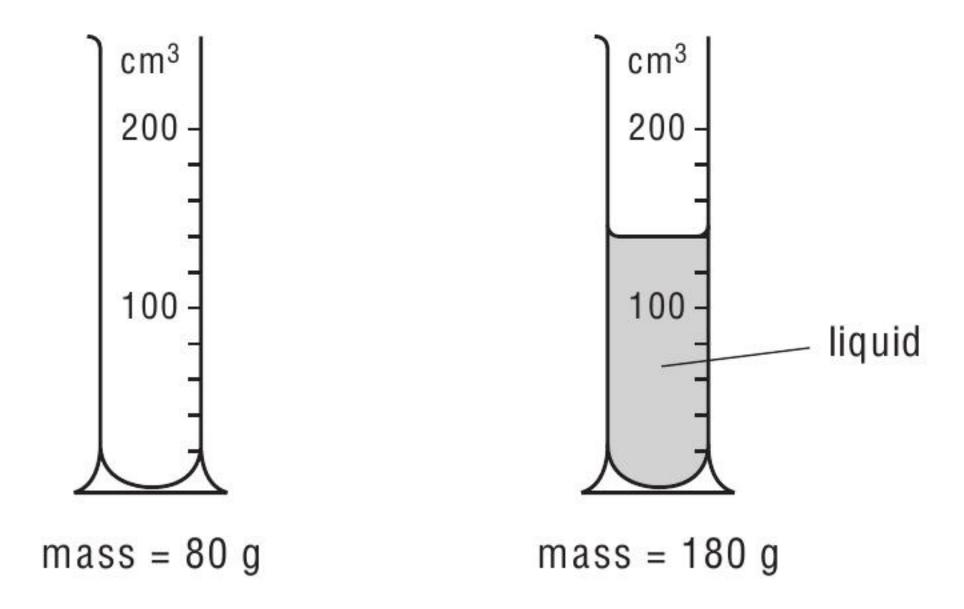
- Which statement is correct?
  - The mass of a bottle of water at the North Pole is different from its mass at the Equator.
  - The mass of a bottle of water is measured in newtons. В
  - The weight of a bottle of water and its mass are the same thing.
  - The weight of a bottle of water is one of the forces acting on it.
- Two blocks X and Y are placed on a beam as shown. The beam balances on a pivot at its centre.



What does this show about X and Y?

- They have the same mass and the same density.
- They have the same mass and the same weight. В
- They have the same volume and the same density.
- They have the same volume and the same weight.
- The masses of a measuring cylinder before and after pouring some liquid into it are shown in the diagram.



What is the density of the liquid?

- **A**  $\frac{100}{120}$  g/cm<sup>3</sup> **B**  $\frac{100}{140}$  g/cm<sup>3</sup> **C**  $\frac{180}{120}$  g/cm<sup>3</sup> **D**  $\frac{180}{140}$  g/cm<sup>3</sup>