

- 8** Two equal masses of an ideal gas initially at the same temperature and pressure are compressed to half of their initial volumes, one of them isothermally, and the other while thermally isolated from its surroundings.

Which of the following must be the same for both samples of the gas?

- A** The heat given during compression.
- B** The internal energy of the compressed gas.
- C** The density of the compressed gas.
- D** The work done on the gas during compression.