

- 12** A fixed mass of ideal gas has pressure of  $1.2 \times 10^5$  Pa at 50 °C. After a sudden compression, its pressure increases to  $6.0 \times 10^5$  Pa at 200 °C.  
What is the ratio of the compressed volume to the original volume?

**A** 0.80

**B** 0.29

**C** 0.14

**D** 0.05