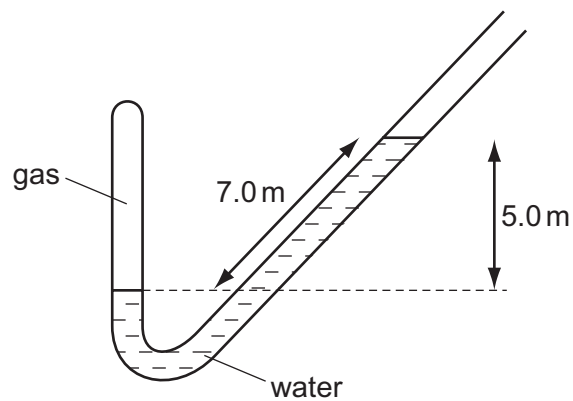


**23** A pipe is closed at one end and contains gas, trapped by a column of water.



The atmospheric pressure is  $1.0 \times 10^5 \text{ Pa}$ . The density of water is  $1000 \text{ kg m}^{-3}$ .

What is the pressure of the gas? (Use  $g = 10 \text{ m s}^{-2}$ .)

- A**  $0.3 \times 10^5 \text{ Pa}$
- B**  $0.5 \times 10^5 \text{ Pa}$
- C**  $1.5 \times 10^5 \text{ Pa}$
- D**  $1.7 \times 10^5 \text{ Pa}$

**Space for working**