2 A sample of an ideal gas has pressure p, volume V and absolute temperature T.

The volume of the gas is decreased to $\frac{2}{3}V$ and the temperature increased to $\frac{6}{5}T$.

Which of the following is the new pressure of the gas?

☒ **A** $\frac{5}{9}p$

☒ **B** $\frac{4}{5}p$

☒ **C** $\frac{5}{4}p$

☒ **D** $\frac{9}{5}p$

(Total for Question 2 = 1 mark)