5 A fixed mass of an ideal gas has a volume V and exerts a pressure p. The absolute temperature of the gas is T. When the gas is heated, the new pressure is $4p$.

Which row of the table gives correct values of the new volume and the new temperature?

		Volume	Temperature
☒	A	$\dfrac{V}{2}$	$2T$
☒	B	$\dfrac{V}{2}$	$4T$
☒	C	$2V$	$2T$
☒	D	$2V$	$4T$

(Total for Question 5 = 1 mark)