Which of the following is the luminosity of a black body radiator with surface area A/2and temperature 2T? \square A $\frac{L}{2}$ $\mathbf{B} L$ \mathbf{K} C 4L \mathbf{D} 8L (Total for Question 7 = 1 mark)

A black body radiator of temperature T and surface area A has a luminosity L.