6 The star Vega has a luminosity 5 times the luminosity of the star Altair. The distance of Vega from the Earth is 1.5 times the distance of Altair from the Earth.

The intensity of radiation received on Earth from Vega is I_V.
The intensity of radiation received on Earth from Altair is I_A.

The ratio I_V/I_A is about

☒   **A**   0.5

☒   **B**   1.5

☒   **C**   2

☒   **D**   5

(Total for Question 6 = 1 mark)