

- 8 Two stars, P and Q, have approximately the same radius. The surface temperature of star P is twice the surface temperature of star Q.

Star P has a luminosity L_P and star Q has a luminosity L_Q .

The ratio $\frac{L_P}{L_Q}$ is approximately

- ☐ A 2
- ☐ B 4
- ☐ C 8
- ☐ D 16

(Total for Question 8 = 1 mark)