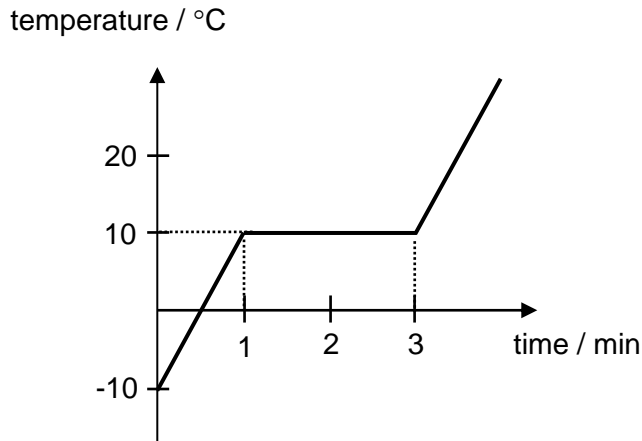


- 12** A student heats a 500 g solid sample at an initial temperature of -10°C . The rate of heat absorbed by the sample is constant at 200 W. The graph below shows how the temperature of the sample varies with time.



What is the specific latent heat of fusion of the solid sample?

- A** 12 kJ kg^{-1} **B** 18 kJ kg^{-1} **C** 36 kJ kg^{-1} **D** 48 kJ kg^{-1}