

7. A spacecraft passes the Earth at a speed of $0.4c$.

A light on the spacecraft pulses on and off.

A passenger on the spacecraft measures the time between the pulses as 2.5 s.

An observer on Earth measures the time between the pulses as:

A 2.3 s

B 2.5 s

C 2.7 s

D 3.0 s

E 3.2 s.