- A spacecraft is travelling at a constant speed relative to a nearby planet.

 A technician on the spacecraft measures the length of the spacecraft as 275 m.
- An observer on the planet measures the length of the spacecraft as 125 m.
- The speed of the spacecraft relative to the observer on the nearby planet is
- A $1.54 \times 10^4 \,\mathrm{m \, s^{-1}}$
- B $2.22 \times 10^8 \, \text{m s}^{-1}$
- C $2.67 \times 10^8 \,\mathrm{m \, s^{-1}}$
- D $3.00 \times 10^8 \,\mathrm{m \, s^{-1}}$ E $7.14 \times 10^{16} \,\mathrm{m \, s^{-1}}$.