



EVie's S.T.E.M. Activity

For STEM K-7 students: (appropriate for grade 6 or 7 students)

Question:

If an EV car has a full charge, it can travel up to 100 km city driving or up to 160km highway driving. On a full charge, how far can it go in city driving after it has travelled **40** km on the highway?

Answer:

The charge remaining after 40km highway travel is equal to $1 - \frac{40 \text{ km}}{160 \text{ km}} = 1 - \frac{1}{4} = \frac{3}{4}$ or 75%.

That means 75% battery charge remains for the EV to travel in the city.

A full charge provides 100km of city driving, and so $\frac{3}{4}$ charge provides $\frac{3}{4}$ of 100km = $3 \frac{100}{4}$ km

= $(3 \times 25) = 75$ km.

The EV car can drive **75** km in the city after its 40 km highway journey.