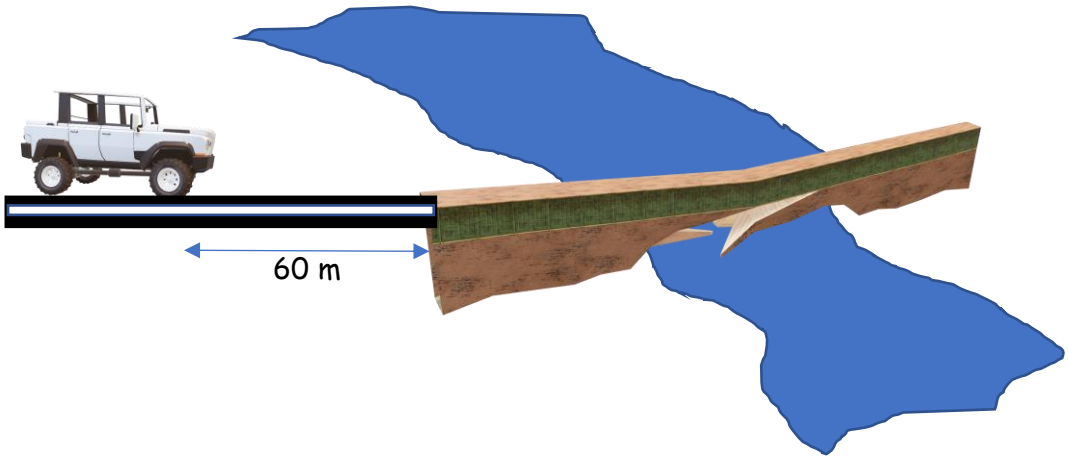1. A car drives along a road at **12 m/s** toward a bridge. Suddenly, in **60 metres** away from the bridge the driver saw the warning sign that the bridge is unfunctional. The car can decelerate **at maximum 4 m/s$^2$**. What is the maximum reaction time that the driver can have to make sure he will stop the car before the bridge?