Question 22834

Linear momentum is a mass of body, multiplied by velocity: $\vec{p} = m\vec{v}, \, p = |p| = m|v| = m\,v$.
In order for car to have the same momentum, $p_1 = p_2$, where p_1 is the momentum of the car,

and p_2 is the momentum of the truck. Hence, $m_1 v_1 = m_2 v_2 \Rightarrow v_1 = \dfrac{m_2}{m_1} v_2 \approx 60{,}62 \, m/s$.