Answer:
Car travel distance
$s(t)=(at^2)/2+v0t$,
the speed is
$v(t)=v0+at$,
where a is acceleration, v0 is initial speed.
Here
$a=2.5m/s^2$
$t=3.2s$
$v(t=3.2s)=9.8m/s$.
From hence
$v0=v(t)-at=9.8m/s-8m/s=1.8m/s$

$s=18.56m$