A lorry leaves a factory on a journey of 195 km at 0845 , travelling at an average speed of $52 \mathrm{~km} / \mathrm{h}$.(b)On the return journey, the lorry leaves at 1455 and arrives at factory at 18 15.Calculate the time taken and the average speed of the lorry on the return journey.

Time on the return journey:

$$
\begin{gathered}
t=18: 15-14: 55=03: 20=3 h 20 \mathrm{~m}=3 \mathrm{~h}+\frac{20}{60} h=3 \mathrm{~h}+\frac{1}{3} h=\frac{10}{3} h \\
v_{a}=\frac{S}{t}=\frac{195 \mathrm{~km}}{\frac{10}{3} h}=\frac{195 * 3}{10} \mathrm{~km} / \mathrm{h}=58.5 \mathrm{~km} / \mathrm{h}
\end{gathered}
$$

Answer: $t=3 h 20 \mathrm{~m}, v_{a}=58.5 \mathrm{~km} / \mathrm{h}$

