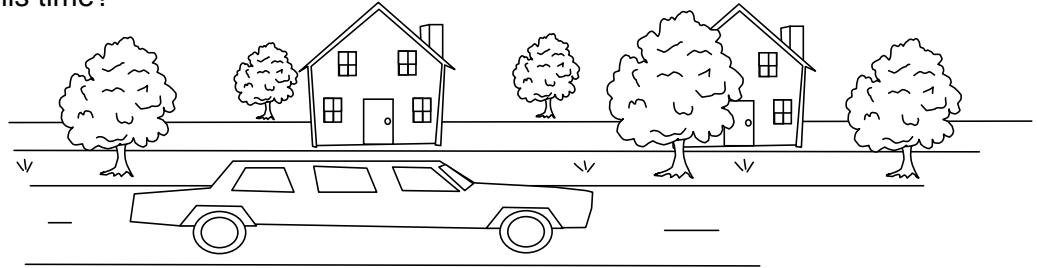


Mrs. Jones takes the same train home everyday, which arrives at her home station at 5:30 PM. At this time, her chauffeur always just arrives, picks her up, and takes her straight home. Two weeks ago, Mrs. Jones decided to go home early and arrived at her home station at 4:30 PM. Instead of waiting for her chauffeur, she started to walk home. On the way home she met the chauffeur who took her the rest of the way home. They arrived 27 minutes earlier than usual. Last Friday, Mrs. Jones took another earlier train and arrived at her home station at 4:50 PM. Again instead of waiting for her chauffeur, she started walking home. On her way she was picked up by the chauffeur and taken home. If the walking and driving speed were constant, how many minutes earlier than usual did she arrive home this time?



PROBLEM OF THE WEEK - ANSWER AND HELP

Mrs. Jones normally arrives at her home train station at 5:30 PM, but when she arrived at 4:30 PM she arrived at home 27 minutes earlier.

$$5:30 - 4:30 = 1 \text{ hour or } 60 \text{ minutes early}$$

$$\text{so } 1 \text{ hour} = 27 \text{ minutes earlier home}$$

Then Mrs. Jones left early again and arrived at 4:50 PM.

$$5:30 - 4:50 = 40 \text{ minutes early}$$

$$x \text{ minutes earlier home}$$

If you put this into a ratio you can see that 40 minutes is 2 parts out of 3 of 60 minutes. So separate 27 minutes into 3 parts and take 2 of them for your answer.

$$\frac{40 \text{ minutes}}{60 \text{ minutes}} = \frac{x \text{ minutes}}{27 \text{ minutes}}$$

$$\frac{2 \text{ minutes}}{3 \text{ minutes}} = \frac{x \text{ minutes}}{27 \text{ minutes}}$$

$$\frac{2 \text{ minutes}}{3 \text{ minutes}} = \frac{x \text{ minutes}}{27 \text{ minutes}}$$

$$\frac{54 \text{ minutes}}{3 \text{ minutes}} = x \text{ minutes}$$

$$18 \text{ minutes} = x \text{ minutes}$$