

$$\begin{aligned} \text{Total mass of 11 players} &= \text{mean of 11 players} \times 11 \\ &= 80.3 \times 11 = 883.3 \text{ Kg} \end{aligned}$$

$$\begin{aligned} \text{Total mass of 12 players} &= \text{mean of 12} \times 12 \\ &= 81.2 \times 12 = 974.4 \text{ Kg.} \end{aligned}$$

$$\begin{aligned} \text{Mass of substitute} &= \text{Total mass of 12 players} - \text{Total} \\ &\quad \text{mass of 11 players} \\ &= 974.4 - 883.3 = 91.1 \text{ Kg.} \end{aligned}$$

7. After eight matches a basket ball player had scored a mean of 27 points. After three more matches his mean was 29. Calculate the total number of points he scored in the last three games

Solⁿ Given.

$$\text{No. of matches} = 8$$

$$\text{Mean score} = 27$$

$$\text{No. of matches} = 11$$

$$\text{mean score} = 29$$

To find = Score in last 3 games.

$$\begin{aligned} \text{Total no. of score after 8 games} \\ &= \text{no. of matches} \times \text{Mean score} \\ &= 8 \times 27 = 216 \end{aligned}$$

$$\begin{aligned} \text{Total no. of score after 11 games} \\ &= \text{no. of matches} \times \text{Mean score after 11} \\ &= 11 \times 29 = 319 \end{aligned}$$

$$\text{Total score in 3 games} = \text{Score in 11 matches} - \text{scores in 8 matches}$$