

1. let total people surveyed = x

$$\textcircled{i} \quad \frac{10}{100} x = 20$$

$$\Rightarrow x = \frac{20 \times 100}{10}$$

$$\Rightarrow x = 200$$

\textcircled{ii} light Music (40%)

\textcircled{iii} total CDs = 1000

$$\begin{aligned} \text{no. of semi classical CDs} &= \frac{20}{100} \times 1000 \\ &= 200 \end{aligned}$$

$$\begin{aligned} \text{no. of classical CDs} &= \frac{10}{100} \times 1000 \\ &= 100 \end{aligned}$$

$$\begin{aligned} \text{no. of folk music CDs} &= \frac{30}{100} \times 1000 \\ &= 300 \end{aligned}$$

$$\begin{aligned} \text{no. of light music CDs} &= \frac{40}{100} \times 1000 \\ &= 400 \end{aligned}$$