

# Solution to Q10.13.1.23

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Question: A girl calculates that the probability of her winning the first prize in a lottery is 0.08. If 6000 tickets are sold, how many tickets has she bought?

(A) 40 (B) 240 (C) 480 (D) 750

**Solution:**

Probability of winning ( $Pr$ ) = 0.08

Number of tickets sold ( $N$ ) = 6000

$$\begin{aligned}\text{Number of tickets bought} &= (Pr) * (N) \\ &= 0.08 * 6000 \\ &= 480\end{aligned}$$