Monopolist maximize his profit when $M R=M C$

$$
\begin{gathered}
M R=T R^{\prime} \\
T R=P * Q=(1200-Q) * Q=1200 Q-Q^{2} \\
M R=1200-2 Q
\end{gathered}
$$

If Mountain spring water can be produced at no cost then $M C=0$

$$
\begin{gathered}
1200-2 Q=0 \\
Q=600 \\
P=1200-600=600
\end{gathered}
$$

Answer: $\mathrm{Q}=600 ; \mathrm{P}=600$

