1. Given a normally distributed population with a mean of 75 and a standard deviation of 6 , how likely is it that you could randomly draw a score less than 69?


$$
\begin{aligned}
Z_{69}= & \frac{69-75}{6}=-1.0 \\
& =\frac{50.00}{15.87 \%}
\end{aligned}
$$

2. With a normally distributed population, mean $=125$ and std. dev. $=12$, how likely is it that you could randomly draw a score greater than 142 ?

3. Using the parameters in \#2, how likely is it that you could randomly draw a score between 110 and 129 ?


$$
\begin{gathered}
z_{110}=\frac{110-125}{12}=-1.25 \\
z_{129}=\frac{129-125}{12}=.33 \\
\\
+\frac{32.44}{52.37} \%
\end{gathered}
$$

