What proportion of the population has IQ between 115 and 130?

Find area above $z = 1$ and subtract area above $z = 2$

$0.1587 - 0.0228 = 0.1359$

\[ \checkmark 13.5\% \]
What proportion of IQ’s fall between 90 and 110?

Convert 90 and 110 to z-scores

90: \( z = \frac{90 - 100}{15} = \frac{-10}{15} = -0.667 \)

110: \( z = \frac{110 - 100}{15} = \frac{10}{15} = 0.667 \)
area between \( z = 0 \) and \( z = .667 \) is \( .2486 \)
area between \( z = -.667 \) and \( z = .667 \)

is \( 2 \times .2486 = .4972 \)
same as area between IQ scores of 90 and 110.

Q: for IQ's is about 10 points