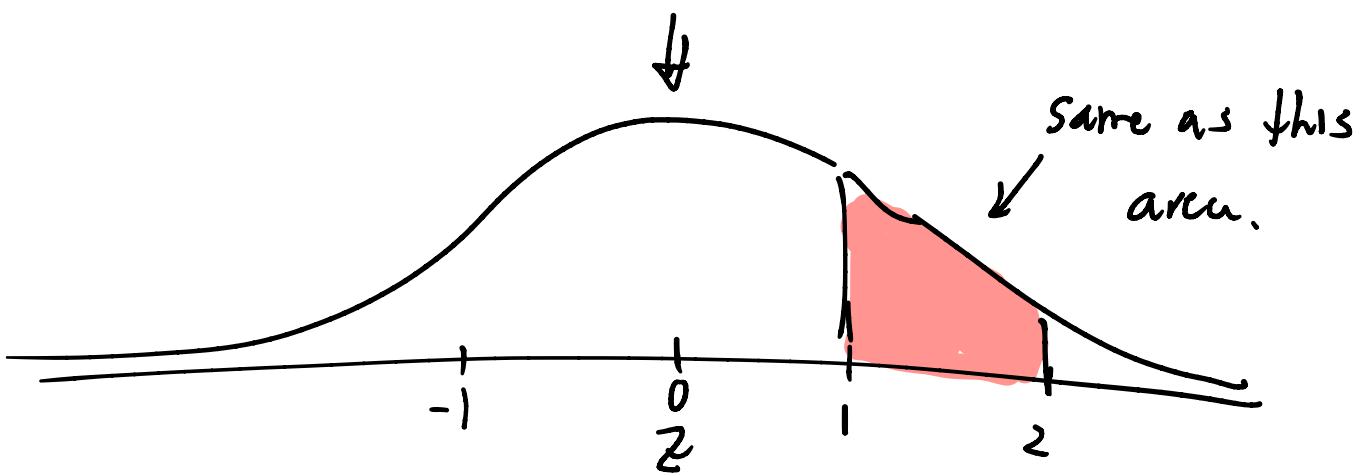
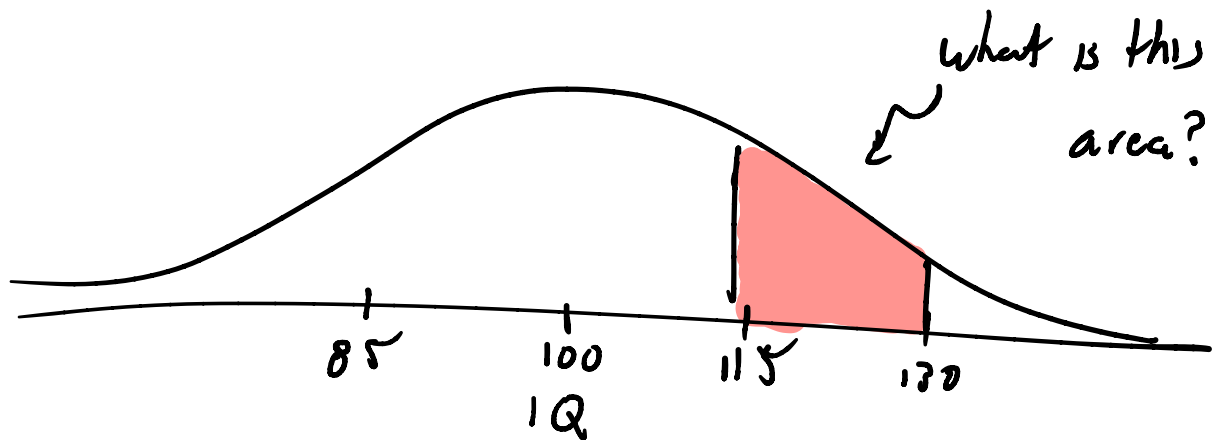


what proportion of the population has IQ
between 115 and 130?

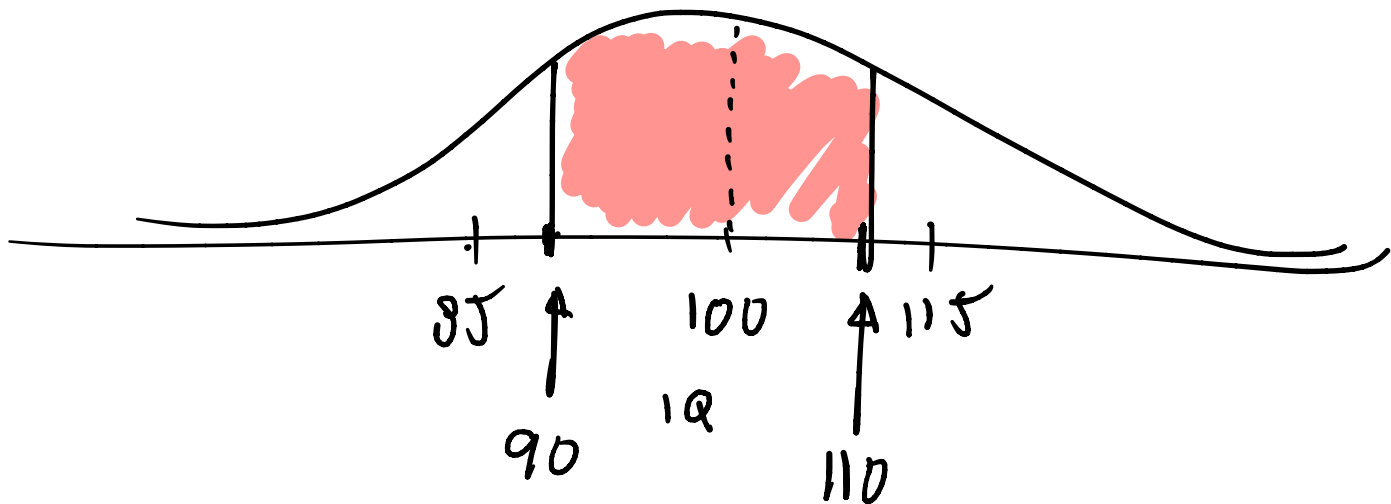


find area above $z=1$ and
subtract area above $z=2$

$$.1587 - .0228 = .1359$$

$\sim 13.5\%$

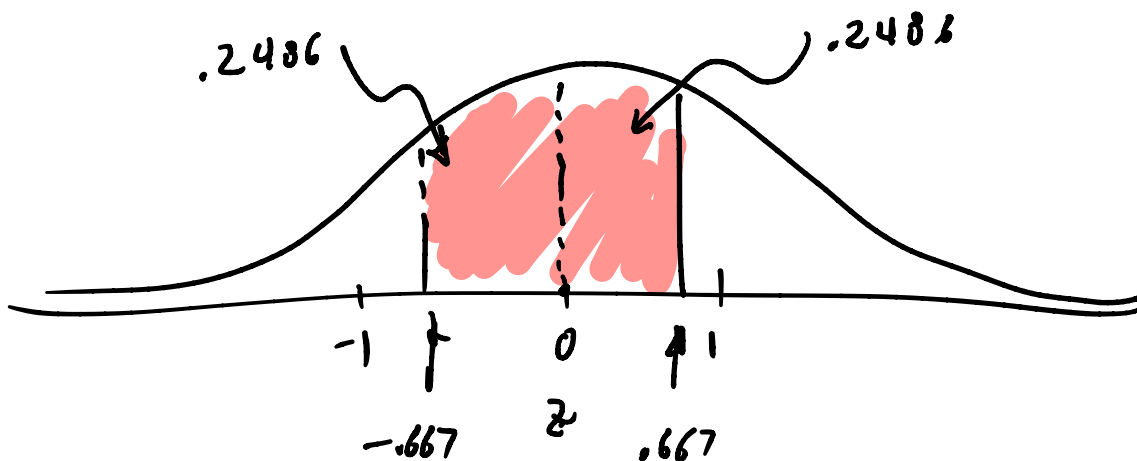
what proportion of IQ's fall between
90 and 110?



Convert 90 and 110 to z scores

$$90: \quad z = \frac{90 - 100}{15} = \frac{-10}{15} = -.667$$

$$110: \quad z = \frac{110 - 100}{15} = \frac{10}{15} = .667$$



area between $z=0$ and $z=.667$ is $\dots, 2486$

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

