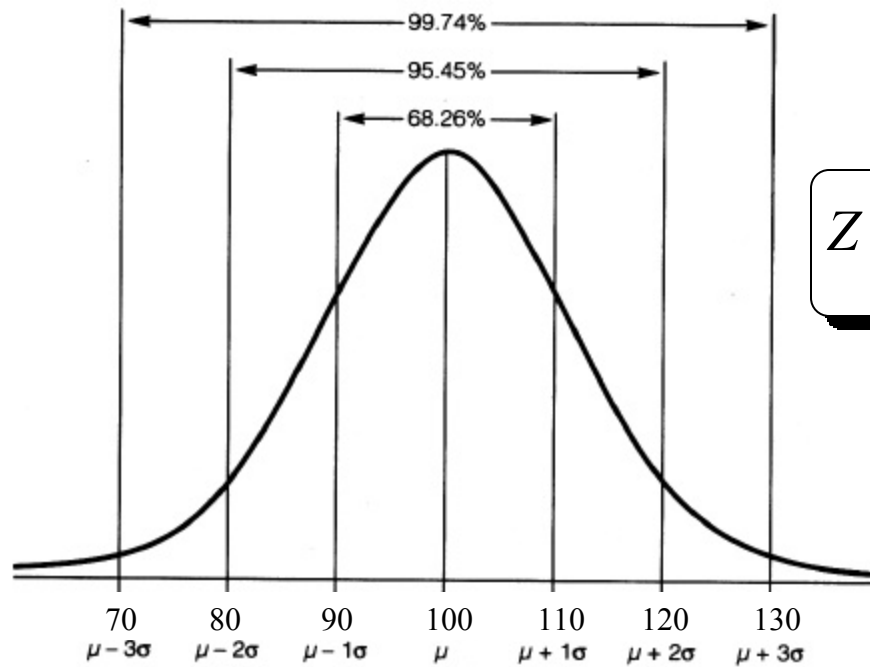# Standardized Score-- The Z Score

$$Z = \frac{X-\mu}{\sigma}$$

Figure 6.1 Important Divisions of the Normal Distribution of IQs

What's the probability of finding a randomly selected person with an IQ > 120?

What's the probability of finding a randomly selected person with an IQ < 80?

What's the probability of finding a randomly selected person with an IQ > 100?

What's the probability of finding a randomly selected person with an IQ between 120 and 110?