5.2 Three hundred women students have a mean height of 65.0 inches and a standard deviation of 2.0 inches. The 300 heights are normally distributed and are measured to the nearest inch.
   a. How many of them are 64 inches or less?
   b. Thirty percent of the students are below what height?

(a) We want to use a probability as a percentage

Number 64 inches or less

= normalcdf(-1E99, 64, 65, 2) * 300
≈ 92.56
≈ 93 women

(b) We want to find a score for X given an area

\[ x_0 = \text{invNorm}(0.30, 65, 2) \]
≈ 63.96 inches

STUDY: Chapter 5: Section 5.3 & 5.4
• Discrete probability distributions