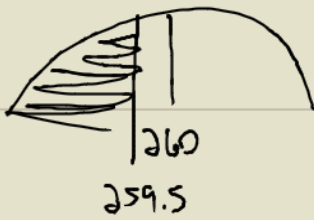


$$3. \quad p = .87 \quad n = 310$$

$$P(\text{FEWER THAN } 260)$$

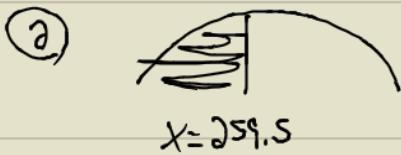


$$\text{NCDF}(-E99, 259.5, 310(.87), \sqrt{310(.87)(1-.87)}) \\ = \boxed{.0425}$$

BY HAND

$$\textcircled{1} \quad np(1-p) \geq 10$$

$$310(.87)(1-.87) = 35.061$$



$$z = \frac{x - np}{\sqrt{np(1-p)}}$$

$$z = \frac{259.5 - 310(.87)}{\sqrt{310(.87)(1-.87)}}$$

$$z = -1.72$$



$$\textcircled{3} \quad \boxed{.0427}$$