Objective 4a Example Problem:

$$p = \frac{72}{120}$$

$X = $ # who prefer digital textbooks

$$n = 10$$

a. $P(X < 8) = P(X \le 7)$

$$= \text{BINOM.DIST}(7, 10, {}^{72}/_{120}, 1)$$

↑ "True"

b. $P(X \ge 8) = 1 - P(X < 8)$

$$= 1 - P(X \le 7)$$

$$= 1 - \text{BINOM.DIST}(7, 10, {}^{72}/_{120}, 1)$$

↑ "True"

If you wanted to find $P(X = 8)$, you would use

$$= \text{BINOM.DIST}(8, 10, {}^{72}/_{120}, 0)$$

↑ "False"