

1.

(a) [1] **0.61**

(b) [1] **0.33**

(bc) [1] **0.19**

2.

(a) [1] (b) 0.465

(b) [1] (b) 23rd (since $P(X < 240) \approx 0.23$)

3. $P(2.5 \leq X \leq 3.5) \approx 0.212$ since $n = 14$, $p = 0.27$, $\sigma = \sqrt{np(1-p)} \approx 1.67$, $\mu = np = 3.78$