

Poisson Calculator Practice

For each of the following Poisson distributions, calculate the probability using the function on the calculator

$P(X = x)$

- $X \sim \text{Po}(0.62)$ $P(X = 3) =$ _____
- $X \sim \text{Po}(2.7)$ $P(X = 5) =$ _____
- $X \sim \text{Po}(7.8)$ $P(X = 9) =$ _____
- $X \sim \text{Po}(12.7)$ $P(X = 15) =$ _____

$P(X \leq x)$

- $X \sim \text{Po}(6.9)$ $P(X \leq 5) =$ _____
- $X \sim \text{Po}(9.1)$ $P(X \leq 10) =$ _____
- $X \sim \text{Po}(0.73)$ $P(X \leq 2) =$ _____
- $X \sim \text{Po}(3.3)$ $P(X \leq 3) =$ _____

$P(X < x)$

- $X \sim \text{Po}(1.46)$ $P(X < 6) =$ _____
- $X \sim \text{Po}(4.8)$ $P(X < 12) =$ _____
- $X \sim \text{Po}(6.3)$ $P(X < 4) =$ _____
- $X \sim \text{Po}(10.2)$ $P(X < 14) =$ _____

$P(X \geq x)$

- $X \sim \text{Po}(0.44)$ $P(X \geq 1) =$ _____
- $X \sim \text{Po}(1.65)$ $P(X \geq 5) =$ _____
- $X \sim \text{Po}(3.1)$ $P(X \geq 3) =$ _____
- $X \sim \text{Po}(13.7)$ $P(X \geq 11) =$ _____

$P(X > x)$

- $X \sim \text{Po}(11.2)$ $P(X > 15) =$ _____
- $X \sim \text{Po}(5.4)$ $P(X > 9) =$ _____
- $X \sim \text{Po}(2.09)$ $P(X > 3) =$ _____
- $X \sim \text{Po}(0.99)$ $P(X > 3) =$ _____

$P(a < X < b)$

- $X \sim \text{Po}(1.9)$ $P(1 < X < 7) =$ _____
- $X \sim \text{Po}(2.5)$ $P(4 \leq X \leq 8) =$ _____
- $X \sim \text{Po}(5.6)$ $P(3 \leq X < 10) =$ _____
- $X \sim \text{Po}(8.2)$ $P(13 < X \leq 19) =$ _____