

Solutions

Each answer shows the steps, then the **result**.

2.1

- fixed number of trials; two outcomes; independent trials; constant p

2.2

- $P(X = x) = \binom{n}{x} p^x (1 - p)^{n-x}$

2.3

- $P(X = 4) = \binom{4}{4} (0.5)^4 = (0.5)^4 = 0.0625$

3.1 B

3.2 B

3.3

(a)

- $n = 3, p = 0.5$

(b)

- $P(X = 0) = (0.5)^3 = 0.125$

(c)

- binomial