$$f(x) = (0.4)^{x-1} 0.6$$
, $x = 1.2$,
 $E(x) = \frac{1}{P} = \frac{1}{0.6} = \frac{5}{3}$

$$f(y) = {9-1 \choose 2} (0.6)^3 (0.4)^{9-3}, y = 3, 4.5, \dots$$

$$P(Y \le 4) = f(3) + f(4) = {2 \choose 2} (0.6)^3 (0.4)^6 + {3 \choose 2} (0.6)^3 (0.4)^6 = 0.4752$$

$$f(t) = (\frac{5}{4})(0.6)^{t}(0.4)^{5-t}$$
, $t = 0.1, 2, 3, 4, 5$

$$P(T=3) = {5 \choose 3} (0.6)^3 (0.4)^2 = 0.3456$$

$$P(X \ge 2) = 1 - f(0) - f(1)$$

$$= 1 - \binom{10}{0} (0.10)^{9} (0.50)^{10} - \binom{10}{1} (0.10)^{1} (0.90)^{9} = 0.2639$$

$$P(X=15) = \frac{2^{-16} A 6^{15}}{151} = 0.09922$$

c) X: ilk hotakı veri girisini yopana kadar yopılan giris sayısı

$$P(x=10) = (0.10)(0.30)^2 = 0.03874$$