**#1a)** Binomial with n = 25 and p = 0.2

x P( X = x )

8 0.0623486

**b)** Binomial with n = 25 and p = 0.2

x P( X ≤ x )

6 0.780035

**#2a.** Binomial with n = 50 and p = 0.72

x P( X = x )

40 0.0597788

**b.** Binomial with n = 50 and p = 0.72

x P( X = x )

40 0.0597788

41 0.0374919

42 0.0206588

Add = .117

**C**. P(x<= 40) = .926

**d.** Binomial with n = 50 and p = 0.72

x P( X ≤ x )

40 0.926049

2d. 1 - .9260 = .0740

**e.** Binomial with n = 50 and p = 0.72

x P( X ≤ x )

39 0.866270

1 - .8663 = .1337

**#3**

**a)** Binomial with n = 6 and p = 0.15

x P( X = x )

2 0.176177

**b)** Binomial with n = 6 and p = 0.15

x P( X = x )

0 0.377150

**c)** Binomial with n = 6 and p = 0.15

x P( X ≤ x )

1 0.776484

**d)** Binomial with n = 6 and p = 0.15

x P( X ≤ x )

2 0.952661

**e)** Binomial with n = 6 and p = 0.15

x P( X ≤ x )

2 0.952661

1 - .952661 = .047339