I pledge to follow the Rules on Academic Honesty and understand that violations may lead to severe penalties. (Signature) \_\_\_\_\_\_

Let 
$$x$$
 be amount of Red balls
$$P(x=0): C^{30} C^{50} = 0, | 608$$

$$C^{100} C^{50}$$

$$f(x=1): \frac{30}{100} = 0.3654$$

$$P(X=1)$$
:  $\frac{30}{2}$   $\frac{30}{2}$ 

$$P(x=3)$$
:  $\frac{C_3^{30}C_2}{C_5^{30}} = 0.1302$ 

$$p(x=4)$$
:  $\frac{30}{4}$   $\frac{70}{1}$   $\frac{1}{1}$   $\frac{$ 

$$P(x=5)$$
:  $\frac{C_5}{C_5}$  = 1.893×10<sup>-3</sup>

$$P(x) - \frac{C_{i}^{10}C_{5i}^{30}}{C_{5}^{100}}, i=0,1,2,3,4,5$$

$$E(x) = \sum_{x=0}^{\infty} x \rho(x) = (0.1604) 0 + (0.3654) 1 + (0.3165) 2 + (0.1302) 3$$

$$+ (0.0255) 4 + (1.893 \times 10^{-3}) 5$$

$$= 1.5$$