$$P\left(\frac{Black}{A}\right) = \frac{5}{8}$$

$$P\left(\frac{Black}{B}\right) = \frac{7}{11}$$

10.

$$Z - SCOTE = 26 - M = 25 - 95$$

Hos the protien supplier will attect

HI= The postien supplies will

not aftert. -3.5 -1.96 95 1.96

volue = -3.5

level of significance a:0.05

contidence interval = 95%.

critical region boundary are = -1.96 to 1.96

neject the null hypothisis and accept the alternate typothesis.

6)

$$\lambda = \frac{15}{2}$$
,  $x = 17$ 

$$P(X=x) = e^{-15/2} (15/4)^{17}$$

8)

Goroup)

Coroup 2

Gorsup 3

2)

$$= \frac{42}{144} + \frac{36}{144} = \frac{78}{144} = 0.5416$$

cords = 
$$52$$

=  $13C_1 \times 13C_1 \times 13C_1$ 

diamond =  $13$ 
 $52C_3$ 

Rewrt = 13 = 
$$13 \times 13 \times 13$$
 =  $2197$   
Spade = 13  $52 \times 51 \times 50$   $132600$