() 
$$P(c_2|c_1)\frac{1}{q} = 0.111$$

$$7 MO.2 * 0.15 = 0.03 B) [1-P(A)[1-P(B)]$$
  
 $() 0.2 + 0.15 - 0.03$   $(1-0.2)(1-0.15)$   
 $= 0.32$   $= 0.68$ 

13) A) 
$$P(A)+P(B) = 0.9+0.8 = 0.98$$
 B)  $1-.98$   
-  $P(A)P(B) = -(0.9)(0.8) = 0.02$ 

$$\frac{-P(A)P(B)}{(P(A)P(B))} - (0.9)(0.8) = 0.19$$

$$= 0.72 = 0.18$$

$$= 0.18$$

$$= 0.18$$

$$= 0.18$$

$$= 0.88$$

$$= 0.88$$

$$= 0.88$$

13 D) 
$$(0.493)(513/600)$$
 $1-(260+40)/600$ 
 $=0.893$ 

17 A)  $80/100 = 0.80$  B)  $70/100 = 0.70$ 
C)  $56/100 = 56/8$ 
D)  $56/100 = -56$ 
D)  $56/100 = -56$ 
 $(25/115 = 0.739)(85/335 = 0.254)$ 
P)  $215/265 = 0.81$ 

20) A) 
$$(0.005)0.7 = 0.0035 b)0.005(.7)$$

$$= 0.008 0.005(0.7) = (.01)(.2-6)$$

$$= 0.4375 = 0.008$$

$$0.008$$

$$0.008 0.005(0.7) = (.01)(.2-6)$$

$$= 0.4375 = 0.008$$

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23 /3/10=-300 8) 2/9=6.222 ()2/9(31/0)

=0.067

2) A) 
$$3au|1000 = 3c00 B| 399/999 = 0.299$$

C)  $299/999 = 100/333(1/10) = 10/333 = 0.2102$ 

E)  $0.0898 + 0.2102 = 0.3000$ 

F)  $(0.2993)(0.3) = 0.2993$ 

O-3

G) A) B Not Independent .2993 \( 2.3000\)

36) A)  $(1-0.05)(1-0.03) = 0.9016$ 

B)  $(1-p)(1-p)^2 = 0.91-0.04 = 0.05$ 

C)  $(1-p)^2 = 0.99 = 0.035$ 

37) A)  $1-(0.08)(0.12) = 0.99$ 

B)  $1-p^2 = 0.99 = 0.29$ 

C)  $1-p^3 = 0.99 = 0.29$ 

D)  $1-(0.5)^3 = 0.99$ 

M) 0.30+.04-16=.50

B) 0.16+.04+.2=0.40

C) .30+.01+.2=0.51

d) 0.16/0.50 = 0.32

e)  $0.04 = 0.040$ 

32) 
$$0.9995 (0.0002)$$
  
 $0.995 (.0002) + (1-0.99)(1-0.0002)$   
 $= 0.0195$   
B)  $1-7(H1B^{c}) = 0.9805$ 

$$\frac{(-0.0002)}{0.99(1-0.0002)} + (1-0.995)(0.0002)$$

$$= 0.999999$$

$$E) 0.995(0.0002) + 0.01(.9993) = 0.01$$