C) P(B≥4)=0,10+0,17

=0,27

=1,0-0,17=0,83

1.2 
$$R = \text{amount of notten apples}$$
  
 $P(R=0)=96$   $P(R=1)=0,3$   $P(R=2)=0,1$   
 $S = Selected$  apples are not notten  
A)  $P(RdS) = \frac{P(S1Rw) \cdot P(Rw)}{P(S)}$  (\*\*)

 $P(s) = 0, 6 \cdot 1, 0 + 0, 3 - \frac{19}{20} \cdot \frac{18}{19} + 0, 1 \cdot \frac{18}{20} \cdot \frac{17}{19}$ 

$$(*) \frac{P(s|R=0) \cdot P(R=0)}{P(s)} = \frac{1,0-0.6}{0.95} = 0.63$$

$$P(s|R=1) \cdot P(P=1)$$

$$P(s) = \frac{P(s)}{P(s)} = \frac{P(s|R=1) \cdot P(R=1)}{P(s)}$$
B)  $P(R=1|s) = \frac{P(s|R=1) \cdot P(R=1)}{P(s)}$ 

$$= \frac{\frac{19}{20} \cdot \frac{18}{19} \cdot 0.3}{0.95} = 0.28$$

$$= \frac{\frac{18}{20} \cdot \frac{17}{19} \cdot 0, 1}{0.95}$$

$$= \frac{0.085}{0.95}$$

$$P(\text{cold | mon over } 50) = 0, 07$$

$$P(\text{False positive}) = 0, 05$$

$$P(\text{False negative}) = 0, 10$$

$$A) P(\text{cold | negative}) = \frac{P(\text{negative | cold}) \cdot P(\text{cold})}{P(\text{negative})}$$

 $C)P(R=2)s) = \frac{P(s)R=2) \cdot P(R=2)}{P(s)}$ 

P(negative | cold): P(negative | cold)

· P(cold)

(ombinations with 3 defective, 2 functioning 9 functioning

(History of 16/ness) Income Illness Current I llness and household in come are cord indep of each other given number of children. This may be a bit too simplified.