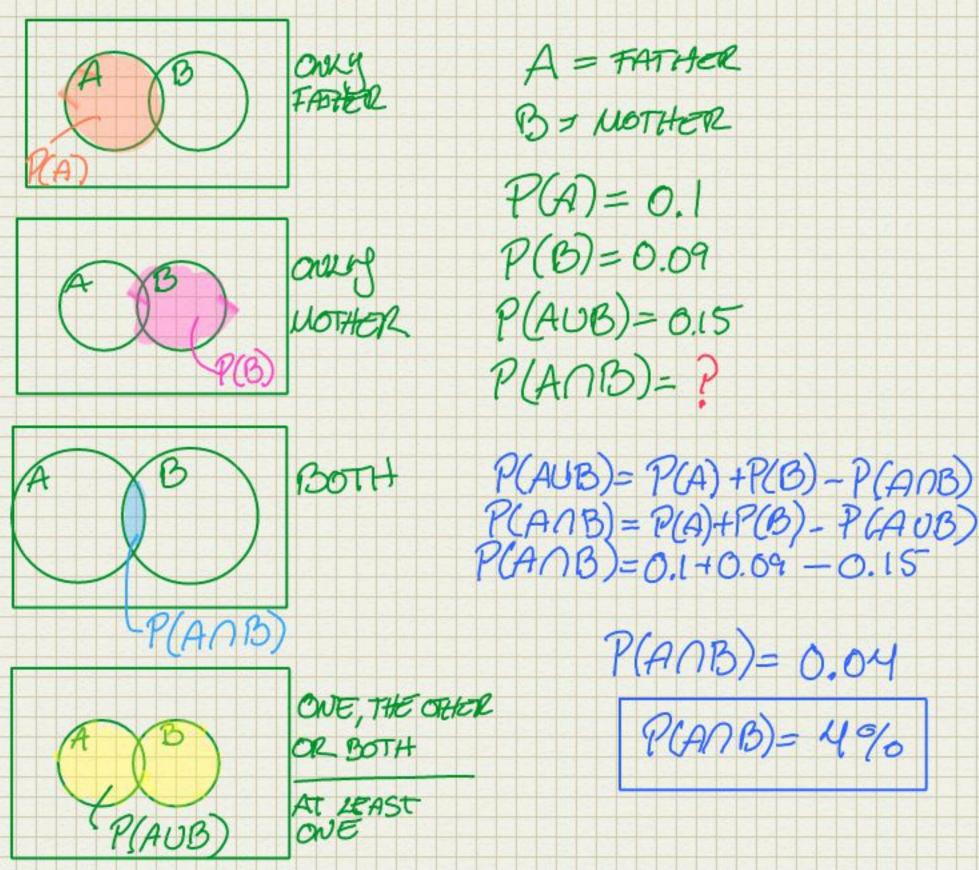
Consider influenza epidemics for two parent heterosexual families. Suppose that the probability is 15% that at least one of the parents has contracted the disease. The probability that the parent has contracted influenza is 10% while that the mother contracted the disease is 9%. What is the probability that the both contracted influenza expressed as a whole number percentage?



Consider influenza epidemics for two parent heterosexual families. Suppose that the probability is 17% that at least one of the parents has contracted the disease. The probability that the father has contracted influenza is 12% while the probability that both the mother and father have contracted the disease is 6%. What is the probability that the mother has contracted influenza?

$$P(A) = 0.12$$
  
 $P(B) = P$   
 $P(A \cup B) = 0.17$   
 $P(A \cap B) = 0.06$ 

BOTH

ATT LEAST ONE

$$P(AUB) = P(A) + P(B) - P(AB)$$
  
 $P(B) = P(AUB) - P(A) + P(AB)$   
 $P(B) = 0.17 - 0.12 + 0.06$