

Answer on Question #37749, Math, Other

We have the game of two players: the public health care and the nature. So, the maxmin method can be used:

$F/V$	$F_1$	$F_2$	$\min_F V_i(F_i)$
$V_1$	<b>0.85</b>	<b>0.7</b>	<b>0.7</b>
$V_2$	<b>0.6</b>	<b>0.9</b>	<b>0.6</b>

There are values of functions  $v_1$  and  $v_2$  in the table in order to values of  $F : F_1$  or  $F_2$ . Thus, we can find the maxmin value of  $V_i(F)$  for all pairs F (flue) and V (vaccine):

$$\max_V \min_F V_i(F_i) = 0.7;$$

Then we can find the argument  $V_i$  for this value of V = 0.7:

$$\arg \max_V (\min_F V_i(F)) = V_1.$$

So, the public health should proceed to make available vaccine V1.