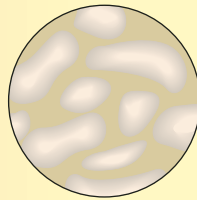


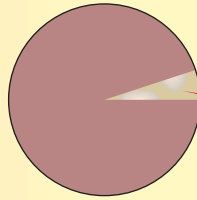
Bacterial Resistance

original colony
of bacteria

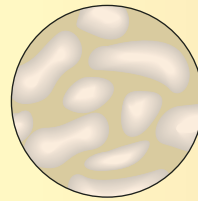


antibiotic #1 applied

95% of the bacteria
are killed. 5% survive
due to a mutation that
makes them resistant
to antibiotic #1.

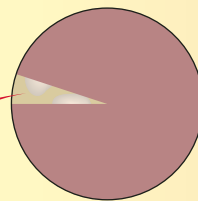


The survivors of
antibiotic #1 grow to
form a new colony.

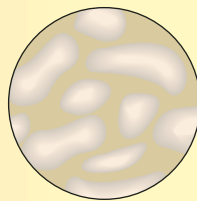


antibiotic #2 applied

The survivors are
resistant to both
antibiotic #1 and #2.



The survivors of
antibiotics #1 and
#2 grow to form a
new colony.



antibiotic #3 applied

As the process continues, antibiotic-resistant bacteria develop.