

## What? There are How Many?

When bacteria have ideal growing conditions- moisture, temperature, and food- it reproduces (splits into two microbes) every twenty minutes. This is called bacterial fission.

\*\*\*REMEMBER our experiment of antibiotic resistance, how does this relate? \*\*\*

At 12:00 one infectious bacterium reproduces, now there are 2.

At 12:20 two bacteria each reproduce and now there are 4.

- Interesting Note: When a microbe grows to a certain predetermined size, it divides itself into two microbes instead of growing into a bigger animal with many cells.

How many bacteria will they be in 12 hours? 24 hours? 2 days?

Show all work. Please sure to include a written description of your answer.

## What? There are How Many?

When bacteria have ideal growing conditions- moisture, temperature, and food- it reproduces (splits into two microbes) every twenty minutes. This is called bacterial fission.

\*\*\*REMEMBER our experiment of antibiotic resistance, how does this relate? \*\*\*

At 12:00 one infectious bacterium reproduces, now there are 2.

At 12:20 two bacteria each reproduce and now there are 4.

- Interesting Note: When a microbe grows to a certain predetermined size, it divides itself into two microbes instead of growing into a bigger animal with many cells.

How many bacteria will they be in 12 hours? 24 hours? 2 days?

Show all work. Please sure to include a written description of your answer.