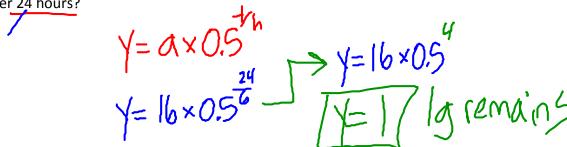
Half-Life and Doubling Time

Half-Life

Time it takes for the mass of something to get _____ Cut in half

Examples

1. The half-life of a radioactive element is 6 hours. How much of a 16 g sample remains after 24 hours?



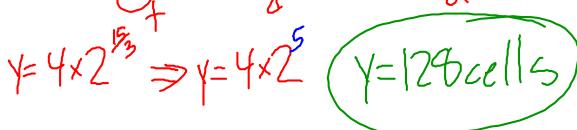
2. The half-life of a radioactive element is 9 days. How much of a 150 g sample remains after 15 days?

Doubling Time

Time it takes for the level of something to ______

Examples

1. The doubling time of a bacterial strain s 3 hours. A strain starts with 4 colls. How many cells are present after 15 hours?



2. The doubling time of a bacterial strain is 7.5 hours. A strain starts with 3 dells. How many cells are present after 36 hours?

