

By Carl Schlee Hammen

Contents

| Size of animals 1 |
|---|
| Metric system conversions Division with slide rule Weight and height of elephants Ponderal index Similitude Thickness and length of limb bones, the 3/2 power rule Weight and length of whales Graphs of exponential equation A logarithm is an exponent Size range of cetaceans Surface-volume ratio Temperature regulation. |
| Two Concentration effects Aqueous solutions Concentration in grams per liter Salinity, ppm Alcohol in blood Dose in grams per kilogram Molar solutions Negative exponents Millimolar solutions Median lethal dose DDT, ppm Kilograms per hectare. |
| Three Genetics and probability 21 |
| Genes Mendel's experiments and his laws Segregation Independent assortment Genotypes and phenotypes Coin tossing Addition and multiplication theorems of probability Monohybrid and dihybrid ratios Chi-square test Drosophila Human genetics Sibling-population ratio Hardy-Weinberg law Sickle-cell anemia, rhesus factor, ABO blood type system. |

N. August Discourge redistrious Some of the second names of the law Animal calorimetry. services and Kohne Okcinion of glacose, alanine | Second Though cost of order ATP construction of the photophorylation Equilibrium conwas and fee energy of anaerobic and aerobic gly. AND THE PARTY N WITE Population growth 43 Doubling Population of the United Same a commental growth Intrinsic rate of increase Birth and again sais Pressants on Protection Island Compound THE LOSSIE OCURTION | Prediction of population. SIL 55 Design of experiments Tentral Replication Principles Frequency of classes Standard deviation | Standard deviation | 1-test. SEVER 67 Ecology Exposures communities census methods [Pyramids of numbers, number energy Rundom, regular, and aggregated dispersion Community metabolism, energy flow. 79 San Inc. Isotopes and photosynthesis Photosomers and respiration, chemical elements, isotopes, ameting Domentic state of amino nitrogen Source of oxygen The photosymbesis Radioisotopes: production, decay helf-life The carbon reduction cycle Crosses and carbohydrate supply. No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa Chamatic pressure, afterd gas law, vapor pressure, solvent activity Resoult's Law freezing point depression, osmotic

| Te | | |
|-------|---|----------------------------|
| Ev | olution and geochronology | 105 |
| of fe | es of evolution: genetic, morphologic, and taxono ossil horses Mean rate of change Genera in survival time of a genus Potassium-argon mrmination Age of Homo erectus Brain size of | Equus line [] ethod of age |
| Ap | pendices | |
| I. | Periodic chart of the elements | 115 |
| 11. | Chi-square | 116 |
| 111. | Common Logarithms | 117 |
| IV. | Natural Logarithms | 120 |
| V. | 1-test | 128 |
| VI. | Answers to Problems | 129 |
| Ind | lex | 139 |