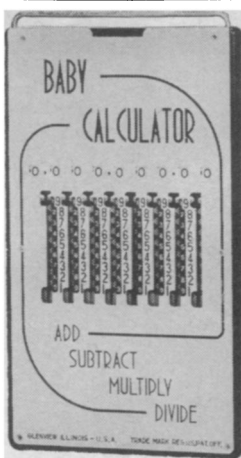


FOR PERSONAL AND BUSINESS USE
WORLD'S SMALLEST
ADDING MACHINE!
Also Multiplies : NOW \$3.95
and Divides! : ONLY

So simple and easy to use that even a ten-year-old child can add up to 99 million in just seconds! Subtracts, and even multiplies and divides without ever making a mistake! Yes, whether you're a Businessman, Salesman, Student, Office Worker, etc. . . . now you'll never make a mistake when you total sales . . . check bills . . . figure orders . . . give estimates . . . take inventory . . . checking household bills . . . keeping score . . . and thousands of other uses!

Here's news about an amazing mathematical invention that can make even adding up the longest string of figures a pleasure. A compact arithmetical wonder that fits right into your pocket and can actually add up to 99 million in just seconds! An attractive, precision built machine that can do even the most complicated addition without any effort or figuring on your part. Send me the Calculator Junior on the 14 Day NO-RISK Approval Plan. If I am not completely satisfied I can return for full money back! Send cash, check or Money Order.

JOHN SURREY, LTD., Dept. SN-52
11 West 32 St., New York, N. Y.



Questions

ASTRONOMY—How do Ephemeris Time and Universal Time differ? p. 263.

CHEMISTRY—What gland normally supplies aldosterone? p. 259.

MEDICINE—Do leukemia patients have a higher or lower concentration of vitamin B-12 than well patients usually have? p. 262.

Photographs: Cover, Smith Kline & French Laboratories; p. 259, Albutus-Yale News Bureau; p. 261, Convair Division, General Dynamics Corporation; p. 263, Fremont Davis; p. 272, Edward M. Melton & Co.

PHYSIOLOGY

Pigeons' Breathing Rate Increases in Daylight

➤ **PIGEONS** breathe faster and harder in daytime than nighttime, Dr. Stanley Z. Kramer of the department of physiology at the University of Pennsylvania told the Federation of American Societies for Experimental Biology meeting in Philadelphia.

When pigeons are exposed to light after having been kept in the dark, there is a rapid increase in the rate of breathing and in the amount of oxygen consumed. These increases were maintained as long as the light was on, even though the pigeons were inactive.

When the light was turned off, the increases were abruptly reversed.

Dr. Kramer also found that when the brightness of the light was increased, the pigeons' breathing rate increased proportionately. If the cerebral hemispheres are removed, however, the birds no longer respond to the light, giving rise to the suggestion that at least part of the control of this reaction is located in that part of the brain.

Science News Letter, April 26, 1958

Do You Know?

Vegetables need about eight hours of full sunlight a day to produce well.

Most of the water that enters *plants* from the soil is transpired into the atmosphere.

More than one-fifth of those who drop out of *college* permanently were in the top 20% of their high school graduating class.

MICRO-ADS

Equipment, supplies and services of special interest to scientists, science teachers and students, science-minded laymen and hobbyists.

25¢ per word, payable in advance. Closing date 3 weeks prior to publication (Saturday).

SNL, 1719 N St., N.W., Washington 6, D. C.

RECORDS

BUY ALL L.P. RECORDS THROUGH THE mail and save through unique buying plan. Mint records, factory fresh. Save on stereophonic tape. Send for brochure. Record Dividend Club, 445 West 50 St., Dept. K, NYC 19.

MISCELLANEOUS

BINDERS FOR SNL—BUFF-COLORED BUCKram. Snap-in metal strips hold 52 copies. \$4.00 pp. Send order with remittance to Science News Letter, 1719 N Street, N.W., Washington 6, D. C.

MEMO TO WRITERS:

The priceless ingredient in every book is the integrity of the publisher. If we are convinced of the quality and sales potential of your manuscript, we will offer you a fair cooperative contract. Publication will be handled by men of vision and experience.

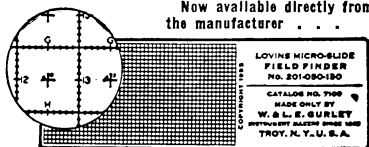
Submit your manuscript to:

THE AMERICAN PRESS

Atten: Mr. OHM, 489 Fifth Ave., N.Y., N.Y.

LOVINS MICRO-SLIDE FIELD FINDER

Now available directly from the manufacturer . . .



Ask for Bull. LFF, W. & L. E. Gurley, Troy, N. Y.

Acid/Alkaline

- Profit by the simplicity and accuracy of
- Hydriol pH test papers for testing the degree of acidity or alkalinity of solution.
- Results to 0.5 pH unit, or less, very informative. Two 15-ft. rolls of 10-color paper plastic dispenser \$2.00. Or, write for leaflet Hydriol/SNL.
- R. P. Cargille Laboratories, Inc.
- 117 Liberty St. New York 6, NY.

MINERALS USED IN THE MANUFACTURE OF GLASS, EARTHENWARE CHINA AND FIRE-PROOF BRICKS. 15 specimens 1½ x 2" plus in compartment box 9 x 12". Price \$4.50 prepaid.

COLLECTION OF RADIOACTIVE MINERALS. 9 specimens in compartment box 6 x 9 x 1". Size of specimens 1" plus. \$4.50. Express prepaid. Can not be shipped through mail. Booklet, Introduction to Geology for the Layman, 50¢.

New Catalogue in May, \$1.00

ECKERT MINERAL RESEARCH PROSPECTORS SUPPLIES

110 E. Main St. Dept. SNL Florence, Colorado

FLESH DEVOURING COBRA LILY



Now! You can have this man-eater of science-fiction and prehistoric folklore in your room, school, office, backyard. It thrives in or out-of-doors. Grows two feet tall! Cobra Lily is a rare carnivorous plant. It lures . . . kills . . . eats bugs, ants, flies, bees, etc. Pays for itself as "Nature's Own Flytrap". You will wonder: Is it Animal? Vegetable? Order now! Be the first to own this exotic Darlington Cobra Lily. Fully grown would cost ten times the price of \$1. Enough seed for six Cobra Lilies. Sprouts within few days.

Don't miss this real-life science adventure; put \$1 in envelope now, check, Money Order; mail to:

DICK KENT, Trader

P.O. Box 264, Camp Hill, Penna.

"World wide Scientific, Educational Specialties."

Never Before Available at this LOW PRICE



PRECISION, PORTABLE, BATTERY OPERATED Transistor

TAPE RECORDER

HI-QUALITY REPRODUCTION!
WEIGHS ONLY 2 POUNDS!

\$29.95

PRECISION ENGINEERED— Amazing, new, battery operated, portable, fully transistorized recorder, imported from West Germany, precision engineered to render same functions as machines costing 5 times as much.

plus \$1.50 pp. & hdg.

FOR HOME, STUDENTS, BUSINESS—It will be the center of attraction at home for recording family get-togethers, capturing the magic of speech and song of family and friends—records radio, record and TV shows! Educators agree that students benefit greatly from studying with a tape recorder. Business men can pack it in brief case and take on trips to record letters, speeches, instructions, ideas; faithfully records verbal agreements, discussions. Perfect for recording interviews!

PENNIES TO OPERATE—The ingenious Tel-Tape records plays back, erases—has variable speed controls! Operates on 4 small flashlight batteries available at any store for pennies. Simply press button and record.

UNCONDITIONALLY GUARANTEED FOR 90 DAYS AGAINST MECHANICAL DEFECTS. Comes complete with sensitive microphone, head set and tape—\$29.95 plus \$1.50 pp. & hdg.

AVAILABLE ACCESSORIES

PATCHCORD— Plug in attachment for play-back thru radio, TV or phonograph \$2.00

STETHO HEAD-SET— Like a doctor's stethoscope. Lightweight. Leaves hands free for typing, etc. \$6.95

REEL OF TAPE (225 ft.) \$1.25

BATTERIES— Set of 4 80¢

Send Check or Money Order.

\$3.00 Deposit on OOD orders.

FILNOR PRODUCTS, INC.

Dept. M-45, 101 West 31st St., New York 1, N.Y.

