The Weekly Newsmagazine of Science

SCIENCE NEVS

January 8, 1994 Vol. 145, No. 2 Pages 17-32



Our Feminizing Environment

Why should we be skeptical of 4 out of 5 dentists surveyed? What's the bull behind the bull market? Do statistics really prove it's safer to fly than drive across country?

Find out in this delightfully witty excursion into the world of mathematical manipulation, as popular columnist and math whiz A. K. Dewdney unveils the vast array of ways in which numbers are twisted and statistics are turned in order to fool the unsuspecting public. From the case of the "Incredible Expanding Toyota" to that of the "National Security Googol," Dewdney exposes the slick tricks and subtle schemes used by advertisers, politicians, special interest lobbyists, stockbrokers, car dealers, and just about anybody who tries to impress us with numbers, charts, and graphs.

Two Hundred Percent of Nothing is packed with real-life examples that demonstrate all types of math abuses. Dewdney identifies them by name, from "number bludgeoning" to "occult sampling," and shows us exactly how they play upon our innumeracy — the common inability to understand the rules of percentages, ratios, statistics, and basic math logic. Furthermore, he explains the basic math behind the answers so that the next time you see mathematical chicanery, you'll recognize it.

Though you may be shocked at how pervasive math abuse is, you may be even more astonished to discover how rapidly you can learn the simple tricks and basic logic of defending yourself against it.

- from John Wiley & Sons



A.K.Dewdney

COLITIS &

CROHN'S

DISEASE

W. GRANT THOMPSON, M. D.

To order by phone, call: 1-800-544-4565 (Visa or MasterCard Only) In D.C. Area: 202-331-9653

John Wiley & Sons, 1993, 182 pages, 61/4" x 91/4", hardcover, \$19.95

Science News Books 1719 N Street, NW, Washington, DC 20036	200PerNothH
Please send me copy(ies) of 200% of include a check payable to Science News Books plus \$2.00 postage and handling (total \$21.95 copy. Domestic orders only.	for \$19.95
Name	
Address	
City State Zip	
Daytime Phone (used only for problems with order)	
(used only for problems with order)	RB1988

In the spirit of the highly acclaimed *Gut Reactions*, Dr. W. Grant Thompson shares his expertise on how to cope with two widespread and debilitating diseases — colitis and Crohn's disease.

Dr. Thompson, an international expert and chief of a hospital gastroenterology unit, highlights the significant similarities and differences of these two syndromes and stresses the importance of a correct diagnosis. Dr. Thompson also broaches more sensitive topics that seem to be ignored by the medical profession. He explores the unique psychosocial and sexual concerns, as well as the effects of pregnancy on those women who suffer from these conditions.

One of the worst consequences of these stubborn ailments is the accompanying reduction in the quality of life. Dr. Thompson addresses common worries about body image due to illness or surgery, pain and suffering, possible effects of medication, and concern over the ominous relationship between ulcerative colitis and cancer. In accessible and supportive prose, Dr. Thompson examines the pros and cons of all possible treatments including drug therapy, nutrition, and surgery. He outlines the latest theories, attempting to pinpoint the still mysterious causes of these disorders.

Take control of your disease under the authoritative guidance of Dr.

Thompson and his dedicated, sensible approach and gain a new perspective on your "angry gut."

— from Plenum Press

ble approach and gain a new perspective on
— from Plenum Press

Science News Books, 1719 N Street, NW, Was

To order by phone from Science News Books, call: 1-800-544-4565 (Visa or MasterCard Only) In D.C. Area: 202-331-9653

Plenum Press, 1993, 350 pages, 5½" x 8½", hardcover, \$26.95

Science News Books, 1719 N Street, NW, Washington, DC 20036 AngryGutH							
Please send me copy(ies Science News Books for \$26.95 p each copy. Domestic orders only.							
Name							
Address							
City	State	Zip					
Daytime Phone							
(used only for problems w	rith order)		RB1987				

EDMUND SCIENTIFIC Co. makes science fairs easy with our most popular best-sellers' selected from our catalog by millions of hobbyists and students. America's largest mail order marketplace of unusual values in telescopes, microscopes, magnets, solar cells,

science discovery kits, optics, prisms, miniature motors, fiber optics, weather instruments, astronomy and more. REE CATALOG Our new, revised 128 page full color edition contains over 4,000 products. A fascinating source book for young scientists searching for creative ideas that can be adapted for science fair projects.



Assortment of 250 luminous stars that glow in the dark on stars that glow in the dark on come with the beauty of glowing stars and you! have fun orom with the beauty of glowing stars and you! have fun with astronomy. Easy to apply decals glow after exposur to glith. Comes with star chart and instructions to recreat Will add of the comes with star chart and manufacture to light. Comes with star chart and manufacture to light comes with star chart and manufacture to light.

Have You Ever Seen The Inside Of Your Eve?



Add Spectacular Color To Your Home With A Rainbow Light Display.

ever-changing rainbow patterns over your walls, ceiling and floor. It's almost like being inside a multifaceted diamond. Glass equilateral prism is 2° (50mm) long with 1° (25mm) faces. Black plastic mount is 3°x1³/s°x1³/s°.

Build Your Own 2000° Solar Furnace With This Fresnel Lens And Harness The Sun's Rays!



lens comes with instructions on how to build the 360° stand and frame shown. *Caution:*Adult supervision required.ST70,533 \$30.70

Every Detail Of Your Eye Enlarged.

Check contact lenses and inspect your own eye with our unique closeyour own eye with our unique closeyour own eye with our unique closeson radius mirror with front surface
coating allows you to inspect your own eye by simply holding the mirror approximately 2 inches in front of your eye. Ideal for contact lens wearers or to inspect for irritant allen particles. Mirror is 2 inches in diameter with front surface aluminized coating.

Fun And Intriguing! You'll Play For Hours With These Colorful Magnetic Magic Marbles.

Build a mountain or odd geometric patterns with these fascinating, high impact plastic marbles. Each marble has both a negative and positive pole. A challenge to your imagination. Fun for youngsters, adults tool 20 marbles per package.

\$134,968 (Package of 20) @ \$3.95 Ea.





Build A Unique Battery Operated Mini Motor.

for friendly special treatment

Digital Thermometer Shows BOTH Indoor AND Outdoor Temperature, Memory For The Day's High AND Low!



Now, you'll know at a glance, with large, easy-to-read LED readout numbers, both the outside and inside temperature. Thermometer also records high and low readings, Prof. C selection of the control of Ren. \$46 \$T38.038 on sale \$30

The Vortx™, More Than A Money Bank! Performs spinning tricks and high maneuvers. Drop a coin onto the launching pad, spin the Vortx unit in a circular motion. This creates an immense amount of speed, causing the coin to spin around and around until it finally drops to the hel-tom storage area. Eyescope is an optical device for looking at the inside of your eye it's a specially designed direct for looking at the inside of your eye it's a specially designed direct for looking at the inside of your eye it's a specially designed direct for looking at the inside of your eye it's a specially designed direct for looking and lens light. Safe and easy direct for looking area. The longest continuous inside the normal eye, how the irris works, indice of the looking area. The longest continuous works, indice of the looking area. The longest continuous in the continuous looking area. The longest continuous in the continuous looking area. The longest continuous looking ar

This Clever Gadget Will Tell You How High You Are.



The London Natural History Museum Dinosaur Replicas Beautifully Sculptured By Craftsmen. SUPER SAVER PRICE, ONLY 32.52

SAVE 33.00 Reg. \$37.52 if purchased separately.

These beautiful models were sculptured by highly skilled craftsmen and authenticated by experts at the Natural History Museum, London, England, using fossil remains and other prehistoric or living evidence.

Prehistoric animals are based on a series of 1.45 scale models. Solid.

:45 scale models. Solid, nbreakable colored plastic.

100 Piece Peg Board Hardware Bonanza.

Spieces

Spieces

Spieces

GLOSE-OUTI
Brand new industrial peg board hardware at a manupack contains 95 "J" hooks and 5 sixpieces your workshop, lab, school room or Grie at a fraction of the cost. Reg. \$12.95 SPECIAL PRICE! ST36,835 \$8.95

Great AM Radio Reception With Select-A-Tenna. Listen To Station WOR N.Y. When In Boston.

This new antenna will bring in those weak, distant AM radio signals loud and clear. You'll now get radio signals loud and clear. You excellent radio reception on all AM stations. Select-A-Tenna turns your AM radio into a powerful receiver. Used in Alaska to pull in stations from continental US. Employs mutually inductive coupling. Mini-jack and plug 10½" in dia. ST72,147 \$59.95

Big Three Auto Makers, Please Copy This... Our Solar Powered Car Runs
Our Solar Powered Car Runs
On Energy From The Sun!
This solar car assembly kit demonstrates the basic example of solar power. The solar panel provides. the power for the motor, which drives the rear of 30 gear ratios (1.7:1, 2.2:1, 3.4:1).

Fun To Construct, Demonstrates The Principles of Electricity. Radiometer... A Space Age Sphere. It's fun to assemble a working model of a mini-motor and learn how electromagnets drive the motor. 1.5V "D" battery needed (not incl.). Kit includes instructions and necessary parts. Ideal for hobbyists, model builders and science fair projects.

Sta6,273 \$14.95

Tyrannosaurus 10"L Woolly Mammoth 4 1/2"L Solar Panel Electronics Project Wins Top Honors In Science Fair Demonstration.





Build Your Own Motorized Walking Robot

A Capsela discovery toy can be an exciting introduction to robot tech-Assumy introduction to robot technology and engineering. You'll be able to build a slow-motion robot and, at your command, watch it move forward or backward in perfect calibrated balance. It almost becomes alive! Contains complete instruc-

Go Fishing With This Mighty Magnet.

Go Fishing With This imputy was a control docks and bridges. A function of a control of the cont

Edmund Scientific Co. Dept. 14D1, C912 Edscorp Bldg., Barrington, NJ 08007



NEW! PRICE \$4995

Lightweight, Measures Less Than 5.5' Ideal for lecturers, presentations, meetings and slide shows.

t projects a brilliant red laser dot to focus attention Islide presentations, charts, business and sales meetings at distances up to 15d ledt. This compact per style class Illa distances up to 15d ledt. This compact per style class Illa the highest industrial standards. 8 hours continuous battery life, uses 2 "AAA" batteries (included), weighs less than 2 oz. Rated output: 3mW at 675mm.

ST52,442 PRICE BREAKTHROUGH! ONLY \$49.95

Illuminating 30X Magnifier-Microscope For Examining Stamps, Coins, etc.

Our new design improves this popular model. Carry it with you everywhere, measures only 5" x" x" x" x". v" deal for critical inspections. Has a built-in light source and optics to let you examine objects 30 times actual size. Features a center focus wheel for precise one-hand operation. Ideal for industrial inspections and hobby applications. Uses 2 "AA" batteries (not incl.). \$735,001 \$9.50



Fickle Foam

A \$27.24 Value!

and learn scientific demonstrations with Juneal Value!

A mazing Flying Bird

Whirling Gyroscope

Sun Powered Radiometer

ST52,380

Rainbow Maker

Fickle Foam

SPECIAL \$ 195

Miniature Water Pump For Photo Darkrooms,



Exciting Books For Science Fair Projects '700 Science Experiments For Everyone



TOO SCIENCE EXPERIMENTS FOR EVERYORE

TOO SCIENCE New, up-to-date edition of the best known science experiment book in the world. Compiled by science instructors under the auspices of UNESCO in Paris. 251 pages, featuring optical projection, electricity, chemistry, astronomy, magnetism, geology, physiology and more. Describes experiments with easy-to-follow instructions and diagrams. \$19301 \$13.95

"333 Science Tricks And Experiments"



Science tricks Allu Experiments
Science students will find ideas for projects involving basic scientific principles, including inertia, gravity, magnetism and the mysteries of chemistry in this well illustrated book. 208 pages, by Roberton Science Teight Scienc

"333 MORE Science Tricks And Experiments" 222 pgs. \$T35,838 \$10.95

Motors By The Bag For The Hobbyist, Modelmakers



Have fun by adding motion to your science fair projects, demonstrations and experiments with this special buy of 20, 1" motors with ³/₈" long shafts.

20. 1" Motors ST1304 \$14.95

Deal An Optical Illusion Next Time You Play

Poker, Blackjack or Gin Rummy.
Visual illusion cards are a great conversation piece for your card games. Contains 52 different visual illusions and instructions. Examples: Illusions in Color. color reversal





Edmund's **Famous** Lean 3 The Air!

12 Jumping Quarters ST42,099 \$4.25

Create A Magic Fountain.

defy gravity. \$739,997 \$3.95

Make Rocketry Your Next Science Project.

cience Project.
Junior astronauts and
scientists... now you
can actually make a
rocket capable of flying
up to 100 feet high. Ali
you need is this kit, an
empty plastic bottle and
a bicycle pump.
Powered only by air and
ordinary water, it will
develop approx. 25 PSI
with a theoretical thrust
of 3.9 lbs. Can be flown
hundreds of times.
Complete instructions
included.

included.

Caution: Adult
Supervision Requ ST39,978 \$19,95

Newton's Third I aw Of Motion Demonstrated With The 5-Ball Swinging Wonder.



biguous figures, size d figure distortion d Size: 3½"Lx2½"W. o card decks availabl Deck A: Can You l eck B: More Illusions	e. Deck A	Deck B \$T39,635 \$7.9 \$T39,636 \$7.9	nickel one o back.	g with it. plated b n the op Consists monofi	Swing one of talls and watch to posite side swi of 5 balls susper lament to a wo \$T33,739 \$22.		
ept. 14D1, C912 E arrington, NJ 0800	Edscorp Bldg.	STOCK	NO.	QTY.	PRICE		
METHOD OF I	PAYMENT:			1000			
Check enclosed MasterCard American Express Discover	□ VISA □ Diners Club □ Carte Blanche □ Optima						
Exp. Date							
Card Number							
Bank Number (MasterCard Only)			Total Price				
Signature		In NJ Add	d 6% Sale	s Tax			
RUSH FREE 128 PAGE FULL COLOR CTALOG		тоти	AL ENCL	OSED _			
Name							
Address							



