

c/o Math Department
Nassau Community College
Garden City, LI, NY 11530

DUODECIMAL 60;

INDEX

VOLUMES 2* - 31;

1985 - 1988

(1195 - 1198)



THE DOZENAL SOCIETY OF AMERICA

(Formerly: The Duodecimal Society of America)

is a voluntary, nonprofit, educational corporation, organized for the conduct of research and education of the public in the use of base twelve in numeration, mathematics, weights and measures, and other branches of pure and applied science.

Membership dues are \$12.00 (US) for one calendar year. Student membership is \$3.00 per year, and a Life membership is \$144.00 (US).

The Duodecimal Bulletin is an official publication of the DOZENAL SOCIETY OF AMERICA, INC., c/o Math Department, Nassau Community College, Garden City, LI, NY, 11530.

BOARD OF DIRECTORS OF THE DOZENAL SOCIETY OF AMERICA

Class of 1989

Walter Berkmann	Norwalk, CT
Dr. John Impagliazzo	Island Park, NY
Robert R. McPherson	Gainesville, FL
Gene Zirkel (Vice President)	West Islip, NY

Class of 1990

Dudley George	Palo Alto, CA
Jamison Handy, Jr.	Pacific Palisades, CA
James Malone	Lynbrook, NY
Fred Newhall (President)	Smithtown, NY

Class of 1991

Anthony Catania (Treasurer)	Seaford, NY
Carmine DeSanto	Merrick, NY
Dr. Angelo Scordato (Chair)	Valley Stream, NY
Patricia McCormick Zirkel	West Islip, NY

Other Officers:

Larry Aufiero (Secretary)
Patricia Zirkel (Editor)
Jamison Handy, Jr. (Associate Editor)

THE DUODECIMAL BULLETIN

Whole Number Six Do

Volume 31; Number 4;

Index 1195 - 1198;

Volumes 2* - 31;

In THIS ISSUE

FOUNDED

1944

Index of Articles and Books

Index of Names and Organizations

7

Index of Subjects

13

Publications Available

1#

20

Editorial Office:

6 Brancatelli Court West Islip, NY 11795 (516) 669-0273

In Next Issue

INDEX OF ARTICLES AND BOOKS

Angular Measure		Phillip S.	Jones	31.2.13
Annual Award	1984 to E.			2*.1.12
	1986 to (Sene Zirkel		30.1.10,1#
	1987 to Ja	mes Malone		31.1.13
Annual Meeting	1984 in Ga	arden City, I	I, NY	2*.1.4,7
	1985	н и	2*.3.4	1;2#.1.4,25
	1986	11	2#.	3.4;30.1.4
	1987	n n	30.1.	10;30.2.18
	1988	11	31.2.2	22;31.3.4-7
Another Set of Sy	mbols:Binar	y Coded Bina	ry Digits	
Antiquity Revisit Ascent of Mathema Casting Out 'Base Casting Out E's		Gene Zirkel		30.1.12,18
Antiquity Revisit	ted A Rep	oly D. Sing	master	31.2.#
Ascent of Mathema	atics (Book	Review)		2*.2.10
Casting Out 'Base	e Minus One	Jean Kelly		31.2.4
Casting Out E's		W. B. Knapp	16.1	.21;31.2.4
Casting Out E s Comprehensive Inc	lex	F. Newhall	Inqu	ire of him
Conversion Rules			31.2.	17;31.3.23
Counting in Dozen	ns - Inside	Back Cover o	of Each Issu	ie
De - see next wor	:d			
Debate				31.1.14
Dedication The	F. Emerson	Andrews Men	orial Colle	
				31.2.14
Demon Seed		Dean Koontz		31.3.*
Design and Use of			Berkman	31.1.1*
Die (German the)				
Die (Latin) Natal	li	Censorinus		31.2.10
Doman Numerals		Gerard Bros	t	30.2.4
Dozen System, The		G. S. Terry		2*.2.13
Dozenal Clock, Th		Dr. Paul Ra		
Dozenal Jottings	2*.2.1	;2#.1.22;2#.		
		31	.1.21;31.2.	
Dozenal Panda, A				31.1.1*
Dozens and Dozens		J. Malone		31.1.1*
Dozens and Dozens				31.1.1*
Dozens in Measure		D. George		31.1.1*
Duodecimal Logari	thm Tables			2#.1.14
Duodecimal Test			2#.2.8;30.2.	
Duodecimals in Ar		Singmaster		31.1.14
Efficient Number	Symbols	F. Newhall		2*.3.14

Eggsactly a Dozen, A Simple A		
	James Malone	26.1.#;2#.1.1*
Egyptians, The A Comment		31.2.*
Elementary Numerical Analysis	s H. Allen Smith	30.2.*
Encyclopaedia Britannica		31.2.11
Enjoyment of Mathematics	Rademacher	2*.3.20
Exact Sciences in Antiquity	Neugebauer	31.1.16;31.2.#
Financial Committee Report		2*.1.15
Fundamental Operations In the	e Duodecimal System	
	Jay Schiffman	31.3.15-20
Funny Coincidence	Bjarke Nielsen	30.2.14
Historical Topics in the Math	nematics Classroom	31.2.13
History of Mathematics, A	C. B. Boyer	31.2.10,13
Honorary Life Members and Fel	llows	28.1.24;2*.3.24
How to Convert Fractions	I. Valevsky	2#.2.14
	G. Zirkel	31.1.22
Impossible		30.2.6
L' or La, see next word		
	Mark Calandra	2*.3.3#
Mathematical Modeling with Sp	readsheets	
	Arganbright	30.2.9
Mathematics in the Time of th		
	Richard J. Gilling	rs 31.2.#
Message from Fred Newhall, Ch		31.1.20
Metric America, A - National		
New Mailing Lables		31.3.#
Number Bases Elsewhere	2	2#.2.13;30.1.1*
	Dudley George	2*.1.17
Number Words and Number Symbo		
Odyssey		31.2.*
Origins of Dozenal Metrology	Brost	31.1.15
Palindromes, Decimal/Duodecim		
Perfect Numbers in Bases 2 ar		
Poor Man's Base Conversion Al		
Primitive Number Systems		
Program to Convert to Base Tw		
Puzzle Corner		3.#;30.1.23,24
Realities of Metrication, A R		30.2.#
	Asimov	2*.3.33
NOGEM OF MUMBERS	ALD TIMO A	4 .5.55

Relative Sizes of Decimal and Duodecimal Numbers Mark Calandra 2*.2.#;2*.3.# Reprot to Congress (GAO) 31.3.20 2*.1.1* Reverse Notation Revisited Gene Zirkel Same Numeral/Different Number G. Zirkel 30.2.7 2#.2.12 Self-Descriptive Numbers Mark Calandra Eviatar Zerubavel 2#.2.16 Seven Day Cycle 2#.2.11 Sexist Language Simon Steven and Charles XII of Sweden A. Glaser 2*.3.17 F. Newhall 2#.1.21 Simpler Notation Some History 2*.2.15 31.3.8 Charles W. Trigg Square Integers 2*.1.1 Squares and Approximations 2*.2.6;2*.3.10;2#.1.* Gene Zirkel Strange Bases 2*.3.20 Survey of Mathematics Angel and Porter Terminal Digits of Pentagonal Numbers 30.1.16 Charles W. Trigg 2*.3.24;2#.3.9,#,10;30.2.1* TGM Tom Pendlebury 30.2.20 Twelve Arguments John Biddle Twelve Days of Christmas A. F. Whillock 30.2.20 30.2.20 Twelve Pound Look, The James Barrie Use of an Accuracy Scale F. Newhall 31.1.1* Use of Symbols G. Zirkel 31.1.1* Useful Application of Ternary Decimals Jay Schiffman 2#.2.4 Videotape Available 31.1.1* What Do You Call a 6-Fingered Panda? Gene Zirkel 2#.2.# Who's Who in California 31.1.23 Why Europeans Lag in Production Charles F. Marschner 2*.2.11 31.2.13 Yearbook of the NCTM

INDEX OF NAMES AND ORGANIZATIONS

Abacus Publication	30.2.9,19
Adams, Paul	30.2.1#
Ajax	31.1.16
Alohan, Joseph U.	30.2.1#
American Metric Association Journal	2*.1.14;2#.3.11,24;
American nettic association bournar	31.3.20
Andrews, Prof. Frank Emerson 2#	.1.14,22;2#.2.24;2#.3.18;
Andrews, Flor. Flank Emerson Za	31.1.8;32.2.1,14
Androva Cato	31.2.14
Andrews, Cate Andrews, Mrs. F. E. (Edith)	2*.2.22;2*.3.22;2#.2.24;
Andrews, Mrs. r. E. (Edith)	
Audune Dest Dates D	31.2.1,14,22
Andrews, Prof. Peter B. Archimedes	31.2.14 31.2.1#
Arganbright, Diane E.	30.2.9
Asbacher, Charles David	31.3.23
Asimov, Isaac	2*.2.23; 2*.3.22; 2#.1.25
Aufiero, Chris	31.1.#
Aufiero, Prof. Larry J.	30.1.7,22;31.1.2,5,*,#;
	31.2.2;31.3.2,5,6
Bagg, D. Gordon	30.1.1*
Bagley, Charles Stuart	2*.2.22
Bagley, Miriam	2*.2.22
Barrie, James	30.2.20
Batchelder, J. W.	2*.1.22
Baumeister, H. K.	30.2.1#
Baumeister, Prof. Theodore	2#.2.23;30.2.1*
Beard, Ralph Herbert "Whiskers"	2*.1.24;2#.1.25;30.1.1*;
	31.1.9
Belch, Sir Toby	30.2.20
	;2*.3.2;2#.1.2,4,5,18,19;
2#.2.2;2#.3.2;30.1.2,5,10;30.2.	
Berridge, Prof. Alice	2*.1.4,6,8,11;2*.3.5,23;
	,19,1#,20;2#.2.24;2#.3.5;
	12;31.1.5,6,*,1#;31.3.6,7
Berridge, Ann	2#.1.24
Berridge, David	2#.1.24
	11;2#.1.24;2#.2.24;31.1.#
Biddle, John	30.2.20
Bishop, Brian R.	30.1.9

Bliden, Victor J.	31.2.24
Bliss, Elizabeth	2*.3.18
Bornhorst, Kari	2*.1.24
Boyer, C. B.	31.2.10,13
Brest, see Brost	
Brost, Gerard "Jerry" Robert	2*.2.23;2#.1.22;2#.2.22;
	,17;30.1.20;30.2.4;31.1.15,21,22;
	31.2.*,#,11,1*;31.3.22
Brown, Calvin Austin	2#.2.24
Buffon, Comte de, see Lecler	c
Bulletin, see Duodecimal	
Bunza, Sani Usman	31.2.24
Calandra, Mark	2*.1.18,19;2*.2.#;2#.2.12
Camp, Kingsland	2*.1.5,12;2#.1.25;31.3.11
Cappe, Joe	2#.1.23
Catania, Annette	2#.1.9
	.1.4,7,8,24;2.2.21;2*.3.4,5,20;
	2#.1.4,5,8,9,14,18,19;2#.3.5;
30.1.	5,6,8,11;31.1.4,5,8,*,1#;31.3.5,6
Cauchy, Augustin Louis	2#.3.9
Celko, Joseph P.	2#.1.23
Censorinus	31.2.10
Cheops, Pharoah Kufu	31.1.14,15
Churchman, Henry Clarence	2#.3.18;30.2.1*;31.2.21;31.3.11
Churchman, John	31.2.21
College Mathematics Journal	2*.3.13,17
Colson News	2#.1.15; 2#.3.#, 17; 30.1.8; 31.2.1#
Columbia University	30.2.1#
Communications Department	31.1.1#
Conant, Levi Leonard	2*.3.21
Crosby, William Shaw	2*.1.12
d'Ailly, Cardinal Pierre	2*.2.22
De Santo, Prof. Carmine	2*.1.2;2*.2.2;2*.3.2;2#.1.2,14;
2#.2.2;2#.3.2;30.1.2,5;30.	2.2;31.1.2,6,#,1#;31.2.2;31.3.2,6
De Simone, Daniel V.	30.2.10
De Valve, Albert	2*.2.1#
Dezhon (changed from Jiun)	30.2.19
DIV	2#.2.*
Dozen Islands	30.2.20
DSA, see Dozenal Society of	
DSGB, see Dozenal Society of	Great Britain

All Division and a second	2012
Duodecimal Bulletin	2*.1.5,7
Duodecimal Society of Great Britain	
Dwiggins, William Addison	2#.1.1#
Earnest, John	2*.3.222#.2.18;2#.3.12,1*
Earnest, Kay (Mrs. John)	2*.3.22
Eltsa, Rae Charles	30.2.1#
von Eschen, Ellis	2*.1.4;30.1.7,13;31.1.#,10
Fanelli, Sean	31.2.1,15
Forster, James A.	2#.2.23
Friedemann, Paul E.	2*.1.12
Furman, Elaine O.	30.1.22
Gany, Victor	2*.1.4,8;2#.1.4,19
George, Christopher	2*.1.17
	,7,8,#,11,16;2*.2.2,22,24;
	,1#,23,24;2#.2.2;2#.3.2,5;
30.1.2,4,8,*,11,13;30.2.2;31.1.2	
Gilles, Dr. Robert C.	2*.3.22
Gillings, Richard J.	31.2.#,11
Glaser, Dr. Anton 2*.1.2,	24;2*.2.2,23;2*.3.2,17,22;
2#.1.2,16,22;2#.2.2;2#.3.2;3	
Goudreau Math Museum	30.1.20
Gray, Nelson	31.3.23
Gross Dam	30.2.20
Gross, Milt	30.2.20
Halcro-Johnson, see Johnson	
Hall, P.	2#.1.1#
	;2*.3.16;31.1.2;31.3.21,22
Handy, Jamison, Jr. "Jux" 2*.1.2,5,	
2#.2.	2;2#.3.2,1*;30.1.2;30.2.2;
31.1.2,	4,9,*,12,23;31.2.2;31.3.22
Handy, Vera Sharp	31.1.4,23;31.2.24
Hasenfus, Eugene	30.2.14
Heine, Joy M.	2#.3.20
Hercules	30.2.20
Herodotus	31.2.*
Herget, Wilfred	2*.1.24
Hipparchus	31.2.12
Hirsch, A. Adler	2*.2.20,22;31.2.22
Homer	31.1.16
Horn, Jean	2*.1.24;30.1.13
Horowitz, David Adams	30.1.22
HOLOWICZ, David Adams	30.1.22

Humphrey, Herbert Kay	2*.1.12;2#.3.17;30.1.8;31.2.21
Hypsicles	31.2.12
Impagliazzo, Annamaria	2#.1.20;2#.2.24
Impagliazzo, Dr. John 2*.1.2.	4,8,9,*,11;2*.2.2;2*.3.2,4,6,*;
2# 1 2 4 5 7 8 17 19	,1*,20;2#.2.2,24;2#.3.1,2,6,17;
	0,11,20;30.2.2;31.1.2,5,6,#,11;
30.1.2,4,0,7,",1	31.2.2;31.3.2,6,7
Tutumatianal Busthanhard of Di	
International Brotherhood of E	
Jacob	30.2.20
Jacob, Guy	31.1.21
James	30.2.20
Janes, W. C.	2#.1.25
Jersey City State College	30.2.1#
Juin changed to Dezhon	30.2.19
Johnston, Hugh Halcro	2*.2.4
	.4,7,22;2#.1.5,23;2#.3.9;30.1.8
Journal of Recreational Mathematical	
Katz, Lorraine	30.2.1*
	;2#.3.13,16;30.2.2,-10;31.2.4
Kirby, R. Keith	2*.1.4,#
Klausen, B.	2*.2.22
Knapp, William Bruce	31.2.4
Koontz, Dean	31.3.*
La or L' see next name	
Lakshmanan, Neela	31.2.1#
Le see next name	
League of Reason	31.1.22
Lien, Dallas H.	2*.1.12
Linton, Tom B.	2*.1.24;2#.1.22;30.1.8;31.3.14
Linton, Vivian	2#.2.22
Lloyd, Mary	2*.1.12
	31.2.1#
Lopez, Al	
Lounesto, Pertti	2*.1.24
Love, Kennet	2*.2.22;2#.1.4,19
Lovell, Emily K.	2#.3.18
Lovell, Robert E.	2#.3.18
Malone, Prof. James	2*.1.2,4-*;2*.2.2;2*.3.2,4,5;
2#.1.1,2,4-7,1	71*;2#.2.25;30.1.2,48,*;30.2.2;
	,12,13,1;31.2.2,14;31.3.2,5,6
Malone, Mary	31.1.1, #, 12; 31.2.14
Mathematics Society of America	31.1.22

Wathamatica Maashan	2+ 1 10 25-30 1 1+ 20-30 2 6
Mathematics Teacher	2*.1.19,25;30.1.1*,20;30.2.6
McCormick, John	2#.2.22
McCormick, Lou	2#.2.24
McCormick, Ron	2*.1.19
McKiernan, Kathleen "Kay"	2*.1.4,8;2*.3.20,22;
	2#.1.8;30.1.6,7;31.1.6,#;31.3.6
McManus	2#.1.24
McPherson, Robert R. 2*.1.2	;2*.2.2;2*.3.2;2#.1.2,22;2#.2.2;
2#.3.2,19;30.1.2,11,	22;30.2.2;31.1.2,9;31.2.2;31.3.2
Memelaus	31.1.16
Menninger	31.1.14,16
Metric Journal	2#.3.11
Meyer, Rochelle	2*.2.24;2#.2.24;31.2.21
	2#.2.24
Meyer, Walter	
Miller, Fred A.	31.2.24
Missouri Council of Teachers	
Moncrieffe, Sir Tain	2*.3.24
Moon, Dr. Bruce A. M.	30.1.*,20
Mount Mercy College	31.3.23
Mueleje, Valo A.	2#.3.1#
Nassau Community College	31.3.4
National Broadcasting Co. TV	31.1.1*
National Bureau of Standards	2*.1.#;30.2.10
NBC see National	,
Neugebauer, Dr. O.	31.1.14; 31.2.#, 11, 13
Newhall, Bruce K.	2#.3.13
	,4,8,#-11,22,23;2*.2.2,20,22,24;
	1,4,5,7-9,17- 1*,21;2#.2.2,22,24;
	30.1.2,4,6-#,11,12,20,23;30.2.2;
	0,21;31.2.1,2,14;31.3.2,4,5,7,21
Newhall, Mary W. 2*.1.4,8,11;	2#.1.4,9,19;2#.3.17;30.1.7,8,23;
	31.2.14
Newton, Sir Isaac	31.2.1#
New Zealand Math Magazine	30.1.20
Nielsen, Bjarke	30.2.21,22
Norland, Alfred C. E.	2#.1.25
Odysseus	31.1.16
O'Neill, Thomas M.	2*.2.23;2#.1.22;30.2.1*
Pacelli, Eugenio see Pius XII	
Papyri	31.1.15
Patriarchs	30.2.20
I WELL TOTICHS	30.2.20

Pendlebury, Tom 2*.3.24;2#.1.	5,7,18,23,24;2#.3.#,10;30.2.1*
Perez, Javier	31.2.24
Pierce, Robert Morris	2#.1.25
Pitman, Sir Isaac J.	2#.1.1#
Pius XII	30.2.20
Pottier, Philip	31.3.13
Proteus	31.3.*
Rapoport, Dr. Paul 2*.2.23	,24;2*.3.22;2#.1.5,22;30.1.18;
	4,6,8,11,12;31.2.23;31.3.10-14
Razziano, Prof. Anthony "Tony"	
	31.1.5;31.3.6
Renstrom, Elaine Seelbach	2#.3.19
Ribaudo, Cristina	2#.2.24
Richard the Lion-Hearted	30.2.20
Riedesel, Harriet	2#.2.24
Robbins, Les	31.1.23
Roselle, David	30.2.7
Rozena, Tim	2#.2.23
Russell, Faye	2#.3.19
Russell, Henry E.	2#.2.24
Russell, Isaac D.	2#.2.24;30.1.22
Saint Francis	31.2.1#
Sarno, Anthony H.	2#.2.23;30.1.1*
	2.4;30.2.1#;31.2.23;31.3.15-20
Schrader, Richard	2*.1.24
Schumacher, Mrs. Genevieve	30.1.18
Schumacher, Paul M.	30.1.22
Schumacher, William C.	2#.1.22;2#.3.16;30.1.18,22
Scifres, Eugene M. "Skip"	2*.1.6,*,12-14;2*.2.1#;
	2#.1.3,14,22;30.2.1#
Scordato, Dr. Angelo "Tony"	2*.1.2,4,6,7,9,24;2*.2.2;
2*.3.2,5;2#.1.2,4,1	16-18,22;2#.2.2,3;2#.3.2,5,17;
30.1.2,4	-9,12,13;30.2.2;31.1.2,4-9,12;
and the second second	31.2.2,14,15;31.3.2,5,6
Sloan Foundation	2#.1.25
Seelbach, Elaine see Renstrom	
Seelbach, Lewis Carl	2*.1.12;2#.3.19
Selfridge, Prof. John L.	2#.3.18
Sesskin, Sam	31.2.22
Seti I	31.2.11
Simon of Bruges, see Stevinus	

Singmaster, David Skillman, Jack	2*.1.24;2*	.2.22;2#.	3.18;31.1.	14;31.2.# 2#.2.23
Sloan Foundation				2#.1.25
Smith, Barbran	2	.1.18;30.	1.5:31.1.5	
Smith, Cedric	2*.2.22;2			
Smith, H. Allen	10000	, , , , , , , , , , , , , , , , , , , ,	, , -	30.2.*
Smithers, Malcomb				31.2.1#
Sonntag, Robert K.				30.1.22
Steele, Hayden W.	2 \$.2.20;2#.:	2 23-30 1	
Stefin, see Stevinus			3.23,30.1.	2,31.3.22
Stevinus, Simon				2*.3.17
Swedberg or Swedenbor	· a			2*.3.17
Terry, George Skeltor			2*.2.13,2	
Triad - League of Rea			2 .2.13,2	31.1.22
Toynbee, Arnold	. Son			2*.1.17
Trelfa, Richard			2# 3 1	8;31.3.22
Triad, The			211.3.1	31.1.22
Trigg, Charles W.		30 1	.16;31.2.	
Turing, Alan M.		30.	1.10,51.2.	30.2.19
Twelve Bens				30.2.20
Twelvers				30.2.20
Valevski, Dr. Igor V.	Colonna	2* 1.6.3	22;2#.2.14	
		,		1;31.1.22
Varnhorn, Dr. Mary C.				2*.3.22
de Voltaire, Francois				2*.3.17
von, see next name	100			2 .5.1
Weaver, Warren				2#.1.25
Weitendorf, Matthew J			30.2.1	#;31.1.22
Whillock, Arthur F.	2*.2.21;2*	.3.22:2#.1		
			*;31.1.9;	
Whiskers see Beard, R	alph		,,,,,,	/ - n
White, Robert P.				30.2.1#
Woerner, Arthur L.				30.2.1#
Zerubavel, Eviatar				2#.1.5
Zirkel, Prof. Gene (a	lso Brother	Louis Fran	cis)	24.2.0
	,8,9,11,14,1			2.4-6.10:
	1.2-4,6-*,17			
	2,4-6,8,11,1			
30.2.2,7,12,19;3				
Zirkel, George				4;2#.3.16
,				-,- 11

Zirkel, Patricia McCormick 2*.1.2,4,5,7-9,11;2*.2.2,3,*,20; 2*.3.2,4,5;2#.1.1-7,16-1*;2#.2.2,3,24; 2#.3.2,4,5,7,16;30.1.2,3,5-*,10;30.2.2,3; 31.1.2,4-6,8,9;31.2.2;31.3.2,5,6

THINK 12 . . . twelve . . . 10; . . . do

INDEX OF SUBJECTS

Abacus	31.1.1*;31.2.9,1#
Accuracy	2*.3.5;2#.1.1*
Accuracy Scale	31.1.1*
Add	31.2.6;31.3.15,16,1*,20
Age	2*.2.23
Analog	31.3.11
Angle	31.1.17;31.2.12
Annual Award, see Award	
Annual Meeting,	2*.1.4,7;2*.3.4;
30.1.4,10;30	.2.12,13;31.1.4-12;31.3.22
Antiquity	31.1.14;31.2.#;31.3.22
Apostle	30.2.20
Archives	2#.1.6;2#.3.16;30.1.1#
Associate Editor	31.1.9
Assyria	31.2.13
Asterisk (*)	30.2.1*
Astronomic Unit	30.2.17
Attic Foot	31.2.*
Author	31.1.18
Award	31.1.8,9,13
Babylon 30.2.13;31.1.14,	17,18;31.2.*,12,13;31.3.22
Ballot	30.2.13
Banquet	2*.1.11
Base 2*.2.6,7,*,13,17;2*.3.7,	10,17,18;30.2.7,*;31.1.17;
	31.2.4
Basic	2#.3.15
Bell Telephone	2#.1.1#
Bibliography	30.1.9
Bit	2*.3.*,14
Board of Directors, see Directors	
Boetia	31.1.16
Book Review, see Review	
Boolean Algebra	2*.3.18
Brochure	30.1.14;31.1.7
Bubble	2#.3.1*
By-Laws	2*.1.6
Calculator	2*.1.5
Calendar	2*.2.22;31.2.#,10,13,1*

Canada	31.2.21
Cantor Ternary	2#.2.4
Carolingian	31.1.16
Casting Out	31.2.4
Cenotaph	31.2.11
Cerebus	30.2.20
Cheops	30.2.10
Circle	30.2.16,19;31.3.22
Circular Slide Rule	2#.2.23
Circular Measure	31.1.17
Circumference	30.2.16
Clock (Timepiece)	2*.2.23;2*.3.23;2#.1.5,22;30.1.18;
	31.1.11,15,19;31.2.11;31.3.10-14
Coinage, see Money	
Coincidence	30.2.14
Collection	31.2.14
Compass	2#.2.12
	14,22;30.2.19,1#;31.1.20,21;31.3.*,22
Constant	2*.3.#;30.2.11
Constitution	30.1.5,6,12;30.2.12;31.1.8
Contest	30.1.14;31.1.18
Conversion	2#.2.14;30.2.16;31.2.16;31.3.1*,1#
Conversion to Metric	2#.2.12
Cot or Cotangent	31.2.12
Counting, see inside bac	k cover of each bulletin
Cross of Lorraine (#) se	
Crunch (#) see Octothorp	
Cubit	2*.2.15;31.2.*,#,12
Currency, see Money	
Cyclic Arithmetic Progre	ssion 31.3.*
Data	2*.3.18
Day	31.1.14,18;31.2.12;31.3.10
Debate	31.1.14
Decan	31.1.16;31.2.11
Decim	2#.3.16
Decimal-form Fractions,	see Fractional
Decimation	31.2.1
Degree	30.2.16
Denmark	31.1.21
Digit	2*.2.15;31.2.#

Digital	31.3.11
Digital Root	31.3.*
	.2;2*.2.2;2*.3.2;30.1.2,4;31.1.4;31.3.2,4,5
Disciple	30.2.20
Display, 7-Segment	2#.2.23
Distinguished Memb	
Divisibility	31.1.10
Division	2#.1.21;30.2.5,17;31.2.8;31.3.15,1#,20
Dolce	2#.3.1#
Dollar	31.1.18
Doman	30.2.4;31.1.21
Double Precision	2*.3.#
Dozenal Clock, see	Clock
Dozenal Jottings	30.1.20;31.1.21
Dozenal Journal	2#.2.23
Dozenals	2*.3.#
Dues	2*.1.10
Duodecim	2#.1.1#
DUODECIMAL;	
Arithmetic	2*.2.13
Tests	2*.2.13;2#.2.8
	2*.3.#;30.2.11
e Eclipse	31.2.13
Editor	30.1.5
	31.1.3
Editorial Office EEC see European	31.1.3
Eggs	31.1.1*
Egypt	31.1.14,15,17-19;31.2.*
Epiphany	30.2.20
Error	31.2.21
Esperanto	2#.1.22;2#.3.1#;30.1.22;30.219;31.2.22
European Economics	
Evolution	30.1.12;31.1.21
Factorability	30.2.17
200 LOVE TO BE TO SEE STATE OF THE SECOND SE	31.1.18
Fantasy	
Fellow	2*.1.12;2#.1.1,19;2#.2.11;
71	2#.3.19;30.1.9,*,#;30.2.1*;31.2.1#;31.3.#
Finance	2*.1.7,15;30.1.5,9
Fingers	31.2.#;31.3.*
Floating Point Fraction Bases	30.2.* 2*.3.10
Dana and an Dana	

	- "
Fractional	2#.3.1*
Fractions	30.2.*;31.1.14
Fundamental Operatio	
Gamble Giza	31.3.*
	31.1.14
Gizeh	31.1.15
Good Integer	30.2.7
Grain	31.1.#
Greek	31.1.14,16,18
Grofut	2#.3.11
Gross National Produ	
Gross Negligence Law	
Hand	31.2.#
Hash Mark (#), see O	
Hayt	31.2.#
Heptad, see Week	
Heptagon	30.1.1*
Hertz	31.3.11
Hexad	31.1.17,19;31.2.13
Hexadecimal	2#.3.13
Hexagon	31.1.17
Hindu	30.2.4
History	2*.1.5;2*.2.10
Honorary Member	31.3.#
Honors	2#.2.11
Hour	31.1.15,16,18;31.2.11,12
Humphrey Point (Duode	ecimal Point) (semicolon) (;) 2*.2.7;
	2#.3.17
Hypoglossal	30.2.20
In Memoriam, see also	Obituary
Inventory	2#.1.5
Ionia	31. 1.16
Integer	31.3.8-*
Islam	31.2.13
Japan	30.2.20;31.2.9
Key Rings	31.1.7
Language	31.1.20
Leap Year	31.2.#
Library	2*.1.5,7,15,24;30.1.1#;31.1.8;31.2.1,14
Life Members	2*.2.1#;2#.1.25;31.3.#
Light-Emitting Diode,	see L.E.D.

Logarithms in General	2#.1.14
Log e	2#.1.14
Logio	2#.1.15
Mars	30.2.17
Mascot	30.1.9
Measure	31.1.1*
Measurement Accuracy	2*.2.11
Meditation	31.3.24
Member	2*.2.23;2#.2.1
Membership	31.1.7;31.3.#
Memorial	31.1.8;31.2.1,14
Mesopotamia	31.2.1*
Meton	31.2.13,1*
Meter or Metre	2#.3.18
Metric System	2*.1.14,22;2*.2.11;31.3.20,21
Metrology	31.1.15,22
Milage	2#.3.18
Mile	30.2.17
Minute	31.1.18
MOD, see also modulo	2#.2.*
Modem	31.1.9
Modulo, see also MOD	31.2.5
Money	31.1.16;31.2.13
Month	31.1.15,17,19
Multiplication	30.2.17;31.2.7;31.3.15,17-19
Music	30.1.4;31.1.10,23
National Bureau of Standards	2*.1.*
National Metric Week	2#.1.6
Negative Digits	2*.2.22
Nerve	30.2.20
Nested Dozens	31.3.10
New Musical Notation, see Music	
News	31.3.21
Night	31.2.11,12
Nomenclature	2#.2.18;2#.3.1*
Nominating Committee	2*.1.8;31.3.5
Notation: see (Number) Symbols	7.72.
Nubase	2#.2.*
Numeral	30.2.7
Obituary:	
William C. Schumacher	30.1.18
	22222

Octothorpe (#)	30.2.19
Once	2#.3.1#
Operations, Fundamen	
Ounce	31.1.16
Pagemaker	31.1.9
Palindrome	2*.1.18,19;30.1.17;31.3.8,*
Palm	2*.2.15;31.1.#,12
Panda	2#.2.#;2#.3.16;30.1.9,20;30.2.1*;31.1.1*
Papyrus	31.2.#
Parliamentarian	2*.1.7;30.1.5
Pascal	2#.3.15
Patriarchs	30.2.20
Pencil	31.1.1*
Penultimate Digit	31.3.8
Perfect Numbers	2*.3.7
Pergros(s)	30.2.17
Permutations	30.1.19
Phone, see Telephone	
Pi	2*.3.#;30.2.11;31.1.17;31.3.22
Plaque	31.1.8;31.2.14
Point	2#.3.8
Postage	2#.1.6
Prime	30.2.15
Printer	31.1.7,9
Printing	31.1.21
Prize	30.1.15;31.1.18
Problem	2#.3.20
Production	2*.2.11
Profane Cubit	31.2.*
Progression, see also	inside back cover of each issue 31.3.*
Pronouncing Numerals	2#.3.12
Pseudo Code	2#.2.11
Puzzles	2*.3.#;30.1.23,24;30.2.20
Pyramid	31.1.14,15,19;31.2.#,12
Quadrant	31.1.17
Quality Control	2*.1.#
Radix, see also Base	2#.3.12
Recording	2*.1.*
Regional Groups	2*.2.1#
Reverse Notation	2*.1.1*-21;2*.2.5,7;2#.3.8
Review, Book	2*.1.22;2*.2.16;30.2.*,#

Daman	20 2 4-21 1 14 16 00
Roman	30.2.4;31.1.14,16,22
Rubik's Cube	2#.2.23
Science Fiction	31.1.18
Secant Second	31.2.12 31.1.18
Sector	
	31.1.16 2#.2.12
Self-Descriptive Numbers Seked	31.2.12
Setat	31.2.*
Seventh	
What is a second	2#.3.*
Sexagesimal	31.1.17,18;31.2.13
Sexist Language	2#.2.#;2#.3.9
Shaty Shart Starry	31.2.#
Short Story	31.1.18
Six Fingers	2#.2.#
Size	2*.2.#
Sky	31.1.16
Slide Rule	2*.1.5
Soroban	31.2.9
Span	2*.2.15;31.2.*
Special Meeting	30.2.12
Spouse	30.1.21
Square Root	2*.3.#
Squares (t)	2*.1.#;31.3.8
Star, see also Asterisk (*)	30.2.16
Student Member	31.3.#
Subscript	2*.3.10
Subset	30.2.8
Subtract Time	31.3.10
Subtraction	31.3.15
Sun	30.2.17
Sundial	31.1.15,18;31.2.11
	,10,16,17;2*.2.1#,24;
2*.3.14,23;2#.1.1#;30.1.12,18;30	.2.19,1*;31.3.4,14,15
System, see also Base	21 2 0 0 15 17
Table Tally	31.3.8,9,16,17
_	2#.2.22
Tangent Telephone	31.2.12 31.1.8
Television	31.1.8
Ternary	
rernary	2#.2.4,21

INDEX OF THE DUODECIMAL BULLETINS VOLUMES 2* - 31

Test	2*.2.13;2#.2.8;30.2.16,19
TGM, see Index of Articles and I	Books
Time	31.3.10
Timepiece, see Clock	
Tolerance	2*.2.11,1#
Trimester	31.1.15
Turing's Test	30.2.19
TV, see Television	
Twella, Twellus	30.1.20
Twelve	30.2.20
Twelve Days of Christmas	2#.2.24;30.2.20
Tylft	31.1.16
Unit Point	2*.2.10
Unitarian	30.2.20
U.S. Metric Board	2#.3.18
Value, see Money	
VCR, see Video	
	1.9,14,1*,1#;30.1.5;31.1.1*,1#
Vote	30.2.12
Week	2#.2.16
Weights and Measures	2#.1.1#
Year	31.1.16,19;31.2.10
Year Zero	31.2.10
Zodiac	31.2.12

Note - This Index was compiled by our President, Fred Newhall. He has a comprehensive index (more than 5 dozen pages long) of all DSA & DSGB periodicals. If anyone desires one or more pages on a subject or a person, he would be glad to send them at cost.

DSA ANNUAL MEETING -- 1989 (1199;)

The next DSA Annual Meeting is planned for October 13 and 14, 1989 (11; and 12; October 1199;).

We look forward to seeing you there!

THE FOLLOWING ARE AVAILABLE FROM THE SOCIETY

- 1. Our brochure. (Free)
- 2. "An Excursion in Numbers" by F. Emerson
 Andrews. Reprinted from the Atlantic Monthly,
 October 1934. (Free)

- Manual of the Dozen System by George S. Terry. (S1:00)
- 4. New Numbers by F. Emerson Andrews. (\$10;00)
- 5. Douze: Notre Dix Futur by Jean Essig. In French. (\$10;00)
- 6. Dozenal Slide Rule, designed by Tom Linton. (\$3;00)
- 7. Back issues of the *Duodecimal Bulletin*, as available, 1944 to present. (\$4;00 each)

COMING IN THE NEXT ISSUE . . .

Whole Number 61; January, 1988

MINUTES, DSA ANNUAL MEETING October 14 and 15, 1988

ALSO

Articles . . .

News from Dozenalists . . .

And dozens of other interesting items!

This issue of the *Duodecimal Bulletin* is an addition to Volume 31;. You will receive your usual issue, containing articles on dozenal topics and other items of interest, toward the end of January, 1989.

Use this issue for reference to Volumes 2* - 31;.

THE NATURAL DOZENALIST



If Pandas could count (do we know that they can't?) they'd do it naturally, in base twelve.

Do you know why this is so??

(See issue number 54; page #, for the answer.)

The DSA does NOT endorse any particular symbols for the digits ten and eleven. For uniformity in publications we use the asterisk (*) for ten and the octothorpe (#) for eleven. Whatever symbols are used, the numbers commonly called "ten," "eleven" and "twelve" are pronounced "dek," "el" and "do" in the duodecimal system.

When it is not clear from the context whether a numeral is a decimal or a dozenal, we use a period as a unit point for base ten and the semi-colon, or Humphrey point, as a unit point for base twelve.

Thus 1/2 = 0.5 = 0.6.

COUNTING IN DOZENS

1 2 3 4 5 6 7 8 9 \div # 10 one two three four five six seven eight nine dek el do

Our common number system is decimal—based on 10. The dozen system uses twelve as the base, which is written 10, and is called do, for dozen. The quantity one gross is written 100, and is called gro. 1000 is called mo, representing the meg-gross, or great-gross.

In our customary counting, the places in our numbers represent successive powers of ten; that is, in 365, the 5 applies to units, the 6 applies to tens, and the 3 applies to tens-of-tens, or hundreds. Place value is even more important in dozenal counting. For example, 265 represents 5 units, 6 dozen, and 2 dozen-dozen, or gross. This number would be called 2 gro 6 do 5, and by a coincidence, represents the same quantity normally expressed as 365.

We use a semicolon as a unit point, thus two and one-half is written 2;6.

Place value is the whole key to dozenal arithmetic. Observe the following additions, remembering that we add up to a dozen before carrying one.

94	136	Five ft. nine in.	5;9'
31	694	Three ft. two in.	3;2'
96	3#2	Two ft. eight in.	2;8'
19#	1000	Eleven ft. seven in.	#;7'

You will not have to learn the dozenal multiplication tables since you already know the 12-times table. Mentally convert the quantities into dozens, and set them down. For example, 7 times 9 is 63, which is 5 dozen and 3; so set down 53. Using this "which is" step, you will be able to multiply and divide dozenal numbers without referring to the dozenal multiplication table.

Dozenal numbers may be converted to decimal numbers by setting down the units figure, adding to it 12 times the second figure, plus 12² (or 144) times the third figure, plus 12³ (or 1728) times the fourth figure, and so on as far as needed. Or, to use a method corresponding to the illustration, keep dividing by **, and the successive remainders are the desired decimal number.

Fractions may be similarly converted by using successive multiplications, instead of divisions, by 12 or*.

For more detailed information see Manual of the Dozen System (\$1;00).

We extend an invitation to membership in our society.

dues are only \$12 (US) per calendar year; the only requirement is a constructive interest.

Application for Admission to the Dozenal Society of America

lame LAST Mailing Address	(for DSA items)	
	(See below for alterna	
		<u> </u>
		rees
Business or Prof	fession	
	Annual Dues	\$12.00 (US)
	Student (Enter data below) .	\$3.00 (US)
	Life	\$144.00 (US)
School		
Address _		
Year & Mati	h Class	
		Dept.
Other Society M	emberships	
Alternate Addres	ss (indicate whether home, office	
	(510,440)	
Signed	Da	ite
My interest in du	uodeciimals arose from	
	v to indicate special duodecimal attach a separate sheet:	microsis, comments, and other

Mail to: Dozenal Society of America c/o Math Department Nassau Community College Garden City, LI, NY 11530

PHOTOCOPY

OR

HERE

DETACH