

D U O D E C I M A L

N E W S C A S T

Year 2
No. 1
January
*1174

The Duodecimal Society of Great Britain,
106, Leigham Court Drive, Leigh-on-Sea, Essex.

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Editorial

At last the Society has held its first General Meeting -- and very successful it was too. A short account will be found on the next pages.

It is hoped that readers will like the new "tabloid" format of the 'Duodecimal Newscast' which makes for easier handling. Also the middle pages form a whole that can be extracted if wished or reprints easily run off.

Our first "central feature" of the new year is, topically, a new approach to the calendar by one of our members. This and other such signed articles do not necessarily state a Society policy: they are individuals' personal proposals which nonetheless merit consideration. Comments, criticisms and other proposals are earnestly invited in article or letter form.

Mr. McMullen has volunteered to start what could be a useful precedent: he is paying the cost of printing his pages (in this case *1E;00 shillings). Whilst it helps greatly to keep costs down, it will not be considered conditional to printing articles submitted. It would also be of help in editing if manuscripts could be typed as closely as possible in the proportions of a Newscast page.

Notes on FIRST GENERAL MEETING
*10 January 1174

As soon as we knew each other, it was agreed that Owen Tucker chair our Meeting. Louis Loynes generously made a room available to us which met the needs of a small but representative gathering -- six members and one observer (Mr. Punch of 'Punch'). This, our first and therefore important, not to say historical, Meeting considered past progress and future policies.

We looked back on duodecimal Press entries:

Letters in 'The Sunday Times'	8 - 1X June	1172
Letters in 'The Times'	1E April	1173
Article in 'Newsletter' of the Phonetic Alphabet Association	August	1173
Letters in 'The Economist'	3 & X October	1173
Reference in 'Punch'	24 October	1173
Letters in 'The Listener'	17 & 22 November	1173
Letters in the 'Dublin Evening Mail'	7 December	1173 (and since)

The Secretary referred to the Beaver Committee correspondence (Will Members please pass on quickly the copies which have for some time been passing from one to another as a "circulator"), and the International Yard and Pound agreed by the standards laboratories of Great Britain, New Zealand, Australia, South Africa and the United States. Japan, India, China and South Africa have unfortunately already decided certain decimalizations and Australia and the Federation of Rhodesia and Nyasaland are investigating coinage.

In dozenal activities abroad, our very live elder-sister organization, the Duodecimal Society of America is doing a lot of useful work. Her members have taken duodecimals to Australia, New Zealand, China, Japan, the Pacific Islands and the Western States. France has an ardent duodecimalist in Jean Essig. The Gallic logic of his works is of great value and not only in French-speaking lands. Many members feel that discussions could profitably be made with the United States and France on several duodecimal points.

The latest financial report shows a clear Balance of 7EX;96 shillings (+£57. 10. 9½) which excludes the cost of this Newscast. Donations have, of course, helped considerably.

Total Income to date	935;X0 s.	(+£66. 17. 10)
Total Expenditure to date	137;06 s.	(+£9. 7. 0½)

We started to consider the future by discussing the organization of the Society and used a draft set of Rules as a basis. This draft with alternative proposals where necessary will circulate with the next Newscast. It was agreed that the management of the Society should be according to the draft Rules, or, where they contain alternative proposals, as at present, until formerly ratified at the next General Meeting.

The Meeting agreed that the financial year should be rationalized and provisionally set to the Calendar Year with the possibility of resetting it to begin on a Spring date according to whichever membership wishes. Ordinary Members joining during a financial year shall pay a shilling a month (Young Members, 6d.) to cover them until the next financial year starts. It was agreed that, to bring present Members into line, they pay the appropriate sum at these rates to cover from the anniversary of their joining until *27 December 1174. The Meeting further agreed that the signature of the Treasurer and one other Officer of the Council be necessary to withdraw money from the bank. We were reluctant to have an initiation grade or extra fee and we shall reconsider honorary membership later. We shall have a voluntary test and instruction available for those desirous.

Our Council for the coming year was elected as follows:

Chairman	Gilbert Adeney
Vice-Chairman	Charles Bishop
Secretary and Treasurer	Brian Bishop
Education and Publicity Secretary	Shaun Ferguson

Time did not permit a detailed discussion of activities. We did agree provisionally for practical purposes to continue using the same number symbols and the foot, pound and shilling as basic standards. All Members are urged to suggest schemes for new number symbols and names, for new units and standards and for the Society insignia. If these are written on separate sheets and sent to the Secretary, he can keep them together in appropriate files. We shall be able to exchange ideas by "circulator" and Newscast. Individual experience will be invaluable also if each member (a) explores duodecimal applications in his own specialization, e.g. computers, printing, weaving, football pools; (b) seizes every opportunity to write to the Press; and (c) personally introduces new people.

STOP PRESS

The Council met on 17 January and discussed a suitable leaflet and press articles for when the Beaver Report comes out (expected in a month).

M E M B E R S H I P -- New Members

Life Member -- Total 1

Mr. Van Allen Lyman c/o the Duodecimal Society of America
 (Mr. Lyman sent a generous cheque, asking for Life Membership.
 This was approved at the General Meeting, but fee still to be fixed)

New Ordinary Members -- New Total *16

Mr. I. Donaldson Farnhams Hall, Ware, Herts.
 Mr. H. E. Hallwright, BScA "Lowlands", 4387 Majestic Drive, R.R. 5
 Victoria, British Columbia, Canada
 Mr. L.J.A. Ioyne 6, Monmouth Street, London, N.C.2.

New Younger Member -- New Total 4

Mr. S. Ferguson 47, Jerningham Road, London, S.E.14.

New Subscribing Supporters: plus two -- New total 5

S U B S C R I P T I O N S

At the General Meeting we agreed that subscriptions should be brought into line with the 1st of January (see page 3). Therefore as I send this Newscast out to each present Member I shall indicate in the margin the amount due for this year. Otherwise subscription rates for the whole year remain:

Ordinary Membership	one dozen shillings
Young Member	six shillings
Subscribing Supporters	rate as appropriate

Members joining during a year pay the proportion until the end of the year.

More donations are needed in cash or kind to be able to consider more ambitious enterprises. Members may care to add something to their subscription cheques, etc., which should be crossed payable to the Society.

L I B R A R Y -- Accessions

The Reverse Notation	(published 1155)	J. Halcro Johnston
The Dozen System	(1159)	George S. Terry
Byraz Colour Co-ordinating	(1173)	Louis Ioyne

all generously donated by the authors

P I and e.

The following approximation of Pi to *540 places is based on the E N I A C decimal computation and was first published in 'The Duodecimal Bulletin' X.1.7 in March *116X.

*3;184809493E91		
8664573X6211	6E61E8E48X62	
EE151551X057	253X88X50X43	124242627444
29290X7809X4	EX0944572315	27091326X851
92742140X60X	X387707E01X3	346467048191
55256X0661X0	92982210E748	9244X3500252
3753X3XX5480	095207139064	613891989625
5646880181X3	630797279495	949802E10856
683083272EEE	57X92E8868E7	0816E85966X9
XOX37CE12265	73E3165X88EE	EO632X8EX7X9
529X828903E4	63406EE57E0E	X22EO958E1E3
E256E8403759	0995335E507E	2146E8650223
X71626E8X546	691845310018	077XY2E263X1
87621849E849	968X98161232	71888X826165
X8225616E442	56E6X89E20X0	394274EX9E67
796X31737E22	086X74620EEX	E34X9X653437
9E2391489853	6E8618340608	283150564E85
943E87637256	X041E99X6E25	57X3277X8E43
16447236E027	10X789834843	1684X022899X
X421XX17X38E	E8XOX9965729	59348041X2X3
52X18X838E01	108651E26914	
514X51144X23	382E74996918	
315X3009X890	X80444899416	
	454957015E22	

At the same time e was converted from the E N I A C value as

2;875236069821	
9EX71971009E	014231EE98E9
388XX8766760	06X47X4350E5
2564272786EC	453024X21814
923E31032566	12979075EX5E
054257348716	42X096668813
7E0008877450	39643180633X
	8E5442798843

A DUODECIMAL CALENDAR

By C. J. McMullen

If I date this article #1173 October 18, it corresponds exactly to +1959 October 20, by mere conversion of numbers from one system to the other. Unless the duodecimalists of the future are prepared to miss leap years in years divisible by 84 but not by 294, this parallel will break down and +October 20 will no longer be #October 18 but will be #October 17 or 19. Therefore the suggestion that a new calendar be introduced should not be too ridiculous.

(It has been suggested that Esperanto should be used by duodecimalists in their nomenclature. The units of time are therefore as follows: jaro, a year; monato, a month; semajno, a week and tago, a day. The suffix -j is used for plurals. The letter J is pronounced as an English Y as in "young" or "boy". Other terms used are the "rejaro" or period of gro jaroj and a "superjaro" or leap year).

The Epoch of the new calendar is, decimally, 4 B.C. December 23 (Old style). This is within two tagoj of the most popular date of Christ's Birth and it also makes the first tago of the jaro fall on the Winter Solstice on the average. The era starts with jaro zero, not one. Likewise the first monato is numbered zero, (although it also has a name) and the first tago of the monato is numbered zero. This gives the sense, not of the "Year of our Lord" and the "month of the year", but of the "Age of our Lord", "age of the jaro" &c.

Our extra tago in the superjaro is added to the end of the jaro so that the jaro is undisturbed to the last. Similarly, when we miss a superjaro we want to do it at the very end of the rejaro, or period of gro jaroj. Thus it is logical to have superjaroj as jaroj ending in 3, 7 or E, but not ending in EE. One extra superjaro must be missed every eight gro jaroj and this is done in jaroj ending in 7E7, 13E7, 20E7, 27E7 &c. Stated in words the superjaro rule is: an extra tago is added to the end of the jaroj preceeding jaroj divisible by four, but not divisible by gro; a jaro is not a superjaro if it is five jaroj before one divisible by eight gro.

The lengths of the monatoj are altered so as to make them coincide as accurately as possible with the signs of the Zodiac.

Here are the number of tagoj in each monato. (The last tago in each monato is numbered one less than these figures - hence the last tago of Kaprikorno is Kaprikorno 25.):

Kaprikorno 26, Amforo 26, Fiŝo 26, Ŝafo 26, Bovo 27, Ĝemelo 27, Kankro 27, Leono 27, Virgo 27, Pesilo 26, Skorpio 26, Pafisto 26 (or 27 in superjaroj). Note on pronunciation: Ŝ is pronounced sh; Ĝ is as J in "jam"; all stresses on last but one syllable.

Dates, times or combinations of dates and times are always expressed with the larger unit first. Examples: 116E Ĝem. E or 116E; 5/E; Another date-time; 1175 Vir. 18; X620, or 1175; 8/18; X620. For dates before Christ, a bar is placed over the jaro: 35̄ Fiŝ. 1E, pronounced "bar three do five Fiŝo do el."

Tables A, B, C and D are a PERPETUAL CALENDAR. To find the tago of the semajno carry out this routine. Find the index number corresponding to the rejaro in table A, the last two digits in the jaro in table B, the monato in table C. Add the sum of these three index numbers to the tago of the monato (cf. the day of the month) and extract the tago of the semajno against this final sum in table D. To find the Sunday letter of the jaro, use tables A and B in the same manner for the jaro and apply the sum to table E.

Table A		Table D		Table E	
I.N.		I. Numbers' sum		I.N. Sun.	Sun. Letter.
0	00 07 09 / 16 /	0 7 12 19 24 2E 36	Sunday (Dimanĉo)	0 7	G
4	01 / 0X / 17 /	1 8 13 1X 25 30 37	Monday (Lundo)	1 8	F
1	02 / 0E / 18 /	2 9 14 1E 26 31 38	Tue day (Mardo)	2 9	E
5	03 / 10 / 19 /	3 X 15 20 27 32 39	Wednesday (Ĝerkredo)	3 X	D
2	04 / 11 / 1X 20	4 E 16 21 28 33 3X	Thursday (Ĵaŭdo)	4 E	C
6	05 / 12 14 1E 21	5 10 17 22 29 34 3E	Friday (Vendredo)	5 10	B
3	06 08 13 15 / 22	6 11 18 23 2X 35 40	Saturday (Sabato)	6 11	A

Table B	
I.N.	
0	00 06 / 15 1E 24 2X / 39 43 48 52 / 61 67 70 76 / 85 8E 94 9X / X9 E3 E8 6E9
1	01 07 10 16 / 25 2E 34 3X / 49 53 58 62 / 71 77 80 86 / 95 9E X4 X / E9 6EX
2	02 / 11 17 20 26 / 35 3E 44 4X / 59 63 68 72 / 81 87 90 96 / X5 XE E4 X 6EE
3	03 08 12 / 21 27 30 36 / 45 4E 54 5X / 69 73 78 82 / 91 97 X0 X6 / E5 EE /
4	/ 09 13 18 22 / 31 37 40 46 / 55 5E 64 6X / 79 83 88 92 / X1 X7 E0 E6 / /
5	04 0X / 19 23 28 32 / 41 47 50 56 / 65 6E 74 7X / 89 93 98 X2 / E1 E7 / /
6	05 0E 14 1X / 29 33 38 42 / 51 57 60 66 / 75 7E 84 8X / 99 X3 X8 X2 / / 6E8

Table C		for use only	
Monato	I.N.	Monato	I.N.
Kaprikorne	1	Amforo	3
Bovo	2	Ĝemelo	5
Virgo	0	Pesilo	3
		Skorpio	5
		Pafisto	0
		Leono	4
		Ŝafo	0
		Fiŝo	5
		Amforo	3
		Kaprikorne	1

in rejaroj 7, 13, 1E, 27 &c.

Example: 1159 Virgo X: From table A, 11 has index number 2; from table B, 59 has index number 2; from table C, Virgo has index number 0; add $2+2+0+X=12$; from table D, 12 is Sunday.

CONVERSION FROM ONE CALENDAR TO THE OTHER. From old style (OS column) or new style (NS column) to duodecimal, convert the jaro into duodecimal figures and add two. Calculate the tago of the jaro from table F and apply the correction, shown in table G. If a December date becomes a Kaprikorno date, add one more to the jaro. Similar tables could be made for conversion the other way.

Table F: (divide the +year by four; the remainder is the column to use)

+ date	remainder one	remainder two, three	remainder zero
Jan. 1	Kap. X	Kap. 9	Kap. 9
Feb. 1	Amf. E	Amf. X	Amf. X
Mar. 1	Pis. 9	Pis. 8	Pis. 9
Apr. 1	Saf. X	Saf. 9	Saf. X
May 1	Bov. X	Bov. 9	Bov. X
Jun. 1	Gem. X	Gem. 9	Gem. X
Jul. 1	Kan. 9	Kan. 8	Kan. 9
Aug. 1	Lec. 9	Lec. 8	Lec. 9
Sep. 1	Vir. 9	Vir. 8	Vir. 9
Oct. 1	Pes. 8	Pes. 7	Pes. 8
Nov. 1	Sko. 9	Sko. 8	Sko. 9
Dec. 1	Paf. 9	Paf. 8	Paf. 9

Table G: ($\frac{1}{2}$ means "up to Feb. 28" or "from Mar. 1")

Years	Corr.	Years	Corr.	Years	Corr.
A.D. - A.D.	OS NS	A.D. - A.D.	OS NS	A.D. - A.D.	OS NS
1 - 100	-1 +1	1006 - 1100	+ 6 0	2014 - 2100	+12 +1
100 - 141	-1 0	1100 - 1145	+ 6 -1	2100 - 2157	+12 0
142 - 200	0 +1	1146 - 1149	+ 7 0	2158 - 2200	+13 +1
200 - 285	0 0	1150 - 1297	+ 8 +1	2200 - 2297	+13 0
286 - 300	+1 +1	1298 - 1300	+ 9 +2	2298 - 2300	+14 +1
300 - 429	+1 0	1300 - 1400	+ 9 +1	2300 - 2301	+14 0
430 - 500	+2 +1	1400 - 1437	+ 9 0	2302 - 2445	+15 +1
500 - 573	+2 0	1438 - 1500	+ 7 +1	2446 - 2500	+16 +2
574 - 600	+3 +1	1500 - 1581	+ X 0	2500 - 2589	+16 +1
600 - 700	+3 0	1582 - 1700	+ E +1	2590 - 2600	+17 +2
700 - 717	+3 -1	1700 - 1725	+ E 0	2600 - 2700	+17 +1
718 - 861	+4 0	1726 - 1800	+10 +1	2700 - 2733	+17 0
862 - 900	+5 +1	1800 - 1869	+10 0	2734 - 2877	+18 +1
900 - 1000	+5 0	1870 - 1900	+11 +1	2878 - 2900	+19 +2
1000 - 1075	+5 -1	1900 - 2013	+11 0	2900 - 3000	+19 +1

Example:
A.D. 1776 July 4.
1776/4 has remainder
zero. From table F
appropriate column,
July 4 is Kankro 10;
Apply 1776 to table G
(NS) correction +1.
Kankro (10+1)=11
+1776= *1040. Add2
Result:
1042 Kan. 11

The ecclesiastical year that works alongside this calendar is of the fixed Easter variety. (Notes: Repetition of such phrases as "La unua dimanĉo post" would be tiresome to the English Speaking reader so the English forms are used. The term "moveable feast" is applied to feasts that move with Easter and always remain on the same tago of the samajno). Christmas is celebrated on Kaprikorno O, as the Epoch of the Calendar is meant to be an approximation to the Birth of Christ. No other feast has effect on the sequence of Sundays that follow it, thus there are no "Sundays after Epiphany". The Sundays are regular from the First after Christmas to the Fourth in Advent. There is very occasionally a Fifth Sunday in Advent, but this is the only variable samajno. All moveable feasts are defined as being "theday nearest a certain date". If a calendar of a jaro of Sunday letter E is studied for all these moveable feasts it will be seen that the date in question falls on the tago of the samajno in question. If, for instance, schools would define the beginnings and endings of their terms using a jaro of Sunday letter E in this manner, they would have their terms not only of the same length jaro after jaro, but they would fall in the same position in the ecclesiastical calendar, (the former claim is not true if the term happens to be over Christmas). Likewise annual occurrences that have to be on a certain tago of the samajno should be defined by the "Sunday Letter E" method.

The sequence of Sundays and moveable feasts and their definitions are listed in table H. To find the date of these feasts in any particular jaro, apply the corrections shown in table J to the date of definition.

To denote a position in the ecclesiastical year the following convention is used for week-days: the name of the previous Sunday, omitting the word "Sunday" followed by the tago of the samajno e.g. First after Christmas Friday, Easter Wednesday, Third in Advent Monday.

Table H

First Sunday After Christmas	is the Sunday	nearest Kap. .4
Second "		Kap. .5
Third "		Kap. 16
Fourth "		Kap. 21
Fifth "		Amf. 2
Sixth "		Amf. 9
Septuagesima		Amf. 14
Sexagesima		Amf. 1E
Shrove Tuesday	Tuesday	Amf. 21
Ash Wednesday	Wednesday	Amf. 22
Quinquagesima	Sunday	Fis. O

Quadragesima/First Sunday in Lent		Fis. 7
Second Sunday in Lent		Fis. 12
Third "		Fis. 19
Fourth "		Fis. 24
Fifth "		Saf. 5
Sixth "		Saf. 10
Maunday Thursday	Thursday	Saf. 14
Good Friday	Friday	Saf. 15
Easter Day	Sunday	Saf. 17
First Sunday after Easter		Saf. 22
Second "		Bov. 3
Third "		Bov. X
Fourth "		Bov. 15
Fifth "		Bov. 20
Ascension Day/Holy Thursday	Thursday	Bov. 24
Sunday after Ascension	Sunday	Gem. 0
Whit Sunday/Pentecost		Gem. 7
Trinity Sunday		Gem. 12
Corpus Christi	Thursday	Gem. 16
First Sunday After Trinity	Sunday	Gem. 19
Second "		Gem. 24
Third "		Kan. 4
Fourth "		Kan. E
Fifth "		Kan. 16
Sixth "		Kan. 21
Seventh "		Leo. 1
Eighth "		Leo. 8
Ninth "		Leo. 13
Dekth "		Leo. 1X
Elth "		Leo. 25
Doth "		Vir. 5
Do First "		Vir. 10
Do Second "		Vir. 17
Do Third "		Vir. 22
Do Fourth "		Pes. 2
Do Fifth "		Pes. 9
Do Sixth "		Pes. 14
Do Seventh "		Pes. 12
Do Eighth "		Sko. 0
Do Ninth "		Sko. 7
Do Dekth "		Sko. 12
Do Elth "		Sko. 19
Two Doth "	/next before Advent	Sko. 24
First Sunday in Advent		Paf. 5
Second "		Paf. 10
Third "		Paf. 17
Fourth "		Paf. 22
Fifth "	occurs if Pafisto 26 is a Sunday (about once in every 24 jaroj)	

Table J

<u>Sunday Letter</u>	<u>Correction</u>	<u>Note</u>
A	+ 3	
B	- 3There is a 5th Sunday in Advent if a
C	- 2	superjaro.
D	- 1	
E	0	
F	+ 1	
G	+ 2	

ANNIVERSARIES AND BIRTHDAYS.

To find the date of an anniversary of an incident, find the original date in terms of the Duodecimal Calendar, and celebrate it on that date every jaro. For example the Gunpowder Plot: +(1605 November 5 US) which is E1E Skorpio 20 so the event is celebrated on Sko. 20 every jaro. For publicity the Society ought to have a firework display on Sko. 20 (Do tagoj late this jaro!), or commemorate the groth jaro after the death of James Watt (on 1075 Leo. 22). The Anniversary will be, decimally, on 1963 August 19. The Duodecimal Society of America could cause a stir by celebrating Independence Day on Kankro 11, two tagoj later than everyone else.

NOTES on the Calendar: (a) The tago begins at midnight Greenwich Mean Time, and this is 00;00 oretagoj everywhere. The change of dinner-time in Britain from 1.0 p.m. to 66;00 ert. will be neither harder nor easier than the change in Singapore from 1.0 p.m. to 29;00 ert. (b) The seasons begin on Kaprikorno 0, Safo 0, Kankro 0 and Pesilo 0. In England, these would be the "Quarter Days". (c) Accuracies of the two calendars: Gregorian - one day in +3,300 years; Duodecimal: one tago in +4,400 jaroj i.e. +2;3 times as accurate. (d) Here are el famous dates expressed in the Duodecimal Calendar:

Battle of Hastings	750 Pes.	22
Signing of the Magna Carta	855 Kan.	4
Spanish Armada	E06 Gem.	- Vir.
Gunpowder Plot	E1E Sko.	20
Restoration of the Monarchy	E66 Bov.	24
Battle of Trafalgar	1607 Pes.	24
Battle of Waterloo	1075 Gem.	22
Outbreak of World War 1	1138 Leo.	E
Armistice Day	1140 Sko.	16
Outbreak of World War 2	1159 Vir.	E
V.E. Day	1163 Bov.	15

NEW DUODECIMAL NOTATIONS

Many members have expressed dissatisfaction with our present number symbols. The following lists, firstly of proposals for a complete new set and then for a new dek and el should be of interest and inspiration.

O -- E

Present convention	Louis Loynes		A. Chilton	S. Ferguson	A.D. Gautier (*10XX)
0	O / Z	O / M	0	0	0
1	I	A	1	1	1
2	A	B	2	2	2
3	B	C	3	3	3
4	C	D	4	4	4
5	D	E	5	5	5
6	E	F	6	6	6
7	F	G	7	7	7
8	G	H	8	8	8
9	H	J	9	9	9
X	J / L	K	X	X	X
E	K / M	L	E	E	E

Z = zero
M = middle/twelve

'Les deux arithmétiques'

X & E

<u>Name</u>	<u>date</u>	<u>X</u>	<u>E</u>
Juan Caramuel Lobkowitz			
'Mathesis biceps'	E50	p	n
(strokes of 10 and 11 adapted to letters)			
D'Alambert and Buffon			
'Dictionnaire de la Grande Encyclopédie'		X	Z
Johannes Albertus Berckenkamp			
'Leges numerandi universales'	1017	q ₁	q ₄
Peter Barlow			
in 'Nicholson's Journal'	106X	Q	Y
'Theory of Numbers'	106E	Q	Y
(Greek letters)			
Vicente Pujals de la Bastida			
'Filosofía de la numeración	1098	τ	τ
(inverted 2 and 4)			
'The Popular Encyclopaedia'	10E2	X	T
John W. Nystrom			
App. to 'Elements of Maths.'	1103	Q	Y
Henry Martyn Parkhurst			
'The Plowshare' August	1115	X	A
Sir Isaac Pitman			
'The Phonetic Journal'	10X8	ε	Y
'The Phonetic Journal'	10X9	τ	τ
(inverted 2 and 3)			
(Used throughout 'The Phonetic Journal for 10X9)			
'Bedfordshire Independent'	10X9	T	E
Harold Thayer Davis			
'A Course in General Maths.'	1135	T	E
Richard Courant and Herbert Robbins			
'What is Mathematics'	1159	α	β
(Greek letters)			
Lancelot Hogben			
'Maths. for the Million'	1161	Q	Q*
(biological symbols)			
Heinrich Teitze			
'Mathematische Probleme'	1165	Z	E
alternative (Greek letters)		κ	λ
Edna A. Kramer			
'The Main Stream of Mathematics'	1167	*	#
(punctuation marks)			

'Encyclopédie Larousse Méthodique'	116E	x	B
(Greek letters)			
Jean Essig			
'Douse notre dix futur'	116E	L	z
Francisco M. Biosca			
in 'Enciclopedia Labor'	1172	F	J
(punctuation marks)			

from 'Duodecimal Bulletins'

H. K. Humphrey	Bulletin No. 1.3	d	k
H. Roberts	2.1	b	e
Paul Van Buskirk	3.4	dk	e
	9.1	h	e
H. G. G. Robertson	3.4	h	e
"Mathamerica"	6.3	T	L
G. Chrystal	8.2	r	e
Redivivus	12.1	Jo	8 re

from correspondence in 1173

T. Wood	x	z
C.N. Jeffries alphabet letters	t	e
(T(en) and XI adapted)	7	q
A.W.S. Brown	q	N
	x	q
L. Loynes	f	k
	8 x	E + k

Mr. Loynes also has the "oddsome" for an uncertain digit in a number. In his book on colour he used Λ , but he now uses \textcircled{C} (from circa) e.g. a few years either side of 1166 is 116 \textcircled{C} , the (decimal) nineteenth century is +18 \textcircled{C} .

BOOK REVIEW

'Byraz Colour Co-ordinating', by Louis Loynes, Byraz Colour Bureau, 6, Monmouth St., London, W.C.2., *1173, 8" x X", paper, *EC pp., *13 shillings.

Man has long sought to register Nature logically. As Mr. Velizar Godjevatz did in music, so Mr. Louis Loynes from original experience now exploits a natural twelve-group tendency in colour for his notation. It is precise yet embraces infinitesimal variations in both pigments and spectra.

Briefly, he pigeon-holes all colours in a honeycomb made of two triangular pyramids base to base. Each corner of the triangular layer joining the bases represents a prime colour, Blue (B), Yellow (Y) or Red (R). The **upper** tetrahedron rises in layers to White or Alb (A) at the tip and the lower descends to Black or Zero (Z). Thus the axis between these tips contains every grey between black and white. The colour-cell in the honeycomb is located by its geometric coordinates from each face, using duodecimal numeration, ideal for the purpose.

Of the many new terms which Mr. Loynes makes up (with clear explanations and origins) some may seem curious; but precise terminology is essential to comprehend colour concepts. An index-glossary would aid reference. Whilst the text is in very clear print, the titling is too varied to distinguish relative importance. Each page is a neat thematic whole; but chapter-grouping would shew up the structure of the work.

Colour notations by others, e.g. Newton, Goethe, Ostwald and Munsell, are objectively considered, and there is an ample bibliography. Two deep-seeking shorter works are included. As with duodecimals, this systematization permits further developments and equally suits specialist or layman. A simple and interesting way is explained to make a useful colour atlas and the Byraz Colour Bureau offers its facilities and co-operation.

Anyone, whatever the interest in colours, should read this product of much thought and research. We welcome this author and his book to our Society.

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F. Emerson Andrews <u>An Excursion in Numbers</u>	a few free
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Ralph H. Beard <u>Antipatio al aritmetiko</u> (in Esperanto)	"
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