



Tracking Tumours into Number Community? – Yes, How and Why



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Abstract

Statement of the Problem: Tumours are growths (of quantity) in humans with medical science literature. Isodigitals produced by pre-emptive multiplication are also growths (of quantity) in numbers with slight numeration science literature for now. The developer of inchoate numeration science literature somehow acquainted with the literature of tumours, upon encountering isodigitals would be prompted to surmise isodigitals as phenotypes (lookalikes) of tumours and be urged to explore their literatures for prospects of relationship between the two.

Methodology and theoretical Orientation: Tumours and isodigitals are subjected to pentadic characterization with the five parameters of identity, structure, function, operation and application for methodology. The theoretical orientation of the method is that tumours and isodigitals as growths of quantity are classic examples of quantity which is defined as the phenomenal medium of manifestation of all things, whether material or non-material. So, the two can be compared and contrasted at will in the interest of science.

Findings: Numeration science literature on isodigitals can borrow mode of classification of tumours from medical science literature on tumours, while medical science literature on tumours can borrow verbal formulary for the description of pattern of growth of tumours from numeration science literature on isodigitals.

Conclusion and Significance: Tumours in humans and isodigitals in numbers are seen as phenotypes subsisting on manifestation of quantity. The peculiarities of one can serve as clues to the probing of the other for more light.

Recommendations: The ideal of insight on quantity should be brought to bear on scientific engagements.

Keywords: Tumours; Isodigitals; Borrowing; Classification; Literature

Introduction

Pre-emptive Multiplication in Numeration Science Literature produces isodigitals (numbers with repeated digits at one or more sites in individual numbers) rather selectively from sudit family lineages in some spectacular architectural design as shown in Charts 1 & 2 that is easily described. The isodigital sites of such numbers look swollen and resemble swollen tissues in humans, which are called tumours in medical science. So the look-alikes (phenotypes) of tumours identified as isodigitals are encountered in some number communities. These isodigitals and tumours are subjected to comparison on this occasion on the ground that both are examples of QUANTITY which is defined in Numeration Science as phenomenal medium of manifestation of all things, whether material or non-material. The comparison includes pentadic characterization with as many as five parameters viz identity, structure, function, operation and application as rungs for exploring the ladder of similarity between the two as shown in Table 1.

Materials and Methods

Materials

The materials are digital and consist of the nine counting digits 1,2,3,4,5,6,7,8,9 distributed in the three Sudit Family Lineages of 1, 4, 7 in Family 1, 2, 5, 8 in Family 2; and 3,6,9 in Family 3 as shown in Chart 1 and the numeral 11 in Chart 2.

Methods

The methods are three: first Isodigital Square Multiplication (ISM). In Sudit family lineages under progressively increasing Digitality Level Arrangement (DLA) levels Chart 1 and the second of Base 11 Potentiation Multiplication under progressively increasing power (n) Chart 2, and the third of Base 10 digibreed construction involving Successive Collateral Posting (SCP), ref. Chart 3 are done as shown in Charts 1 and 2 respectively. The contents of the two charts are studied and regularities in the results of ISM of Family 3 in Chart 1 and that of potentiation

multiplication of isodigital base 11 Chart 2 are discovered and identified as examples of pre-emptive multiplication, which is a newly invented brand of multiplication in inchoate micro-mathematics being developed by this author.

Chart 1: Isodigital Square Multiplication in Sudit Family Lineages, 1-9

Sudit Family No.	Sudit Family Index	Sudit Family Lineage	Isodigital Square Multiplication (ISM) in Digitality Level Arrangements (DLA's)								Remarks	
			OP	DLA 1	DLA 2	DLA 3	DLA 4	DLA 5	DLA 6	DLA 7		
1	.3333...	1	ISM	1x1	11x11	111x111	1111x1111	11111x11111	111111x111111	1111111x1111111		
			P	1	121	12321	1234321	123454321	12345654321	1234567654321	CSF	
			CAT	Common growth pattern (CGP) Ascend serially from 1 to DLA index and descend serially back to 1								V.F Featuring Kenization Dekenization
		4	ISM	4x4	44x44	444x444	4444x4444	44444x44444	444444x444444	4444444x4444444	44444444x44444444	
			P	16	1936	197136	19749136	1975269136	197530469136	19753082469136	19753082469136	Common RODI only
			CAT	NCGP								NVF
		7	ISM	7x7	77x77	777x777	7777x7777	77777x77777	777777x777777	7777777x7777777	77777777x77777777	
			P	49	5929	603729	60481729	6049261729	604937061729	60493815061729	60493815061729	Common RODI only
			CAT	NCGP								NVF
2	.6666...	2	CAT	NCGP								NVF
			ISM	2x2	22x22	222x222	2222x2222	22222x22222	222222x222222	2222222x2222222	22222222x22222222	
			P	4	484	49284	4937284	493817284	49382617284	4938270617284	4938270617284	Common RODI only
		5	ISM	5x5	55x55	555x555	5555x5555	55555x55555	555555x555555	5555555x5555555	55555555x55555555	
			P	25	3025	308025	30858025	3086358025	308641358025	30864191358025	30864191358025	Common ultimate & penultimate
			CAT	NCGP								NVF
		8	ISM	8x8	88x88	888x888	8888x8888	88888x88888	888888x888888	8888888x8888888	88888888x88888888	
			P	64	7744	788544	78996544	7901076544	790121876544	7901239876544	7901239876544	Common RODI only
			CAT	NCGP								NVF

KEY

CSF: Common Structural Frame; ISM: Isodigital Square Multiplication; OP: Multiplication Operation under increasing DLA levels; P: Product; CAT: Category (of product) in terms of uniform structure amenable to verbal formula (VF) or else not amenable to verbal formula (NVF). CGP: Common Growth Pattern, NCGP = No Common Growth Pattern; L: Leading Digit in DLA 1 Product LT (Gamete); T: Trailing Digit in DLA 1 Product LT (Gamete); VFFKD : Verbal Formula Featuring Kenization and Dekenization

Note: With verbal formula, products of DLA 8, 9,10 etc can be obtained without calculation exercise in ISM, thus giving rise to systematization in Pre-emptive Multiplication.

Chart 2: Isodigital base 11 potentiation multiplication.

Isodigital 11 potentiation multiplication (11 ⁿ)	11 ⁿ or (11 to power (n))									
	11	11 ¹	11 ²	11 ³	11 ⁴	11 ⁵	11 ⁶	11 ⁷	11 ⁸	11 ⁹
Product	1	11	121	1331	14441	15551	166661	1777771	18888881	199999991
Verbal formula	The power index (n) replicated (n-1) times and sandwiched in 11, (so that the product has 1 in front and 1 behind).									

Chart 3: Base -10 Digibreed Construction by Successive Collateral Posting Method.

Corridor	0	1	2	3	4	5	6	7	8	9	Base strength in panel

1	10	11	12	13	14	15	16	17	18	19	
2	20	21	22	23	24	25	26	27	28	29	
3	30	31	32	33	34	35	36	37	38	39	
4	40	41	42	43	44	45	46	47	48	49	
5	50	51	52	53	54	55	56	57	58	59	
6	60	61	62	63	64	65	66	67	68	69	
7	70	71	72	73	74	75	76	77	78	79	
8	80	81	82	83	84	85	86	87	88	89	DLA 2
9	90	91	92	93	90	95	96	97	98	99	
10	<u>100</u>	1	2	3	4	5	6	7	8	9	
11	0	<u>111</u>	2	3	4	5	6	7	8	9	
12	0	1	<u>122</u>	3	4	5	6	7	8	9	
13	0	1	2	<u>133</u>	4	5	6	7	8	9	
14	0	1	2	3	<u>144</u>	5	6	7	8	9	
15	0	1	2	3	4	<u>155</u>	6	7	8	9	
16	0	1	2	3	4	5	<u>166</u>	7	8	9	
17	0	1	2	3	4	5	6	<u>177</u>	8	9	DLA 3
18	0	1	2	3	4	5	6	7	<u>188</u>	9	
19	0	1	2	3	4	5	6	7	8	<u>199</u>	

Table 1: Pentadic Characterization of Isodigitals and Tumours.

Pentadic Characterization parameters		Duo	
		Isodigitals	Tumours
S/No 1	Identity (what is it by name or class)	Growth manifested in a location involving isodigits in numbers	Growth manifested in a location involving cells in human tissue
2	Structure (shape, size, content, systemic, configuration etc)	Entity well defined in outline	Entity well defined in outline
3	Function	Attention calling, Spectacular	Attention calling, Spectacular
4	Operation	Growing upon due excitement, exhibiting intrinsic properties	Growing upon due excitement, exhibiting intrinsic properties
5	Application	Significance or peculiarities as reference point for further probing or research effort	Significance or peculiarities as reference point for further probing or research effort.

The construction is continued by transferring 10 -19 in row 2 to the second segment of the corridor as shown in Chart 3. The nine rows thus filled carry the digibreed to 99 preceded by 0-9 in the panel. Counting, however, starts at 1 and not 0 as 0 is not a counting digit. Step 1 requires the placement of the base strength of base 10 i.e. the ten digits 0-9 from left to right in the panel as shown in Charts 3. Step 2 transfers the counting digits 1-9 only into the corridor, descending serially from 1 to 9. Step

3 requires the membership of the base strength in the panel to descend nine places in their respective columns according to the membership in the topmost segment of the corridor. Step 4 requires each digit in the corridor to move to the left side of each digit in the row under the panel (Table 1).

Results

(Tables 2 & 3).

Table 2: Table of Isodigitals, the Phenotypes of Tumours.

S/No	Isodigitals					Source	Remarks
1	3	110889	11108889	1111088889	111110888889	Chart 1 Sudit Family No. 3 lineages 3,6, 9 in DLA 3-DLA 7	Common configuration amenable to description by verbal formula for pattern
	6	443556	44435556	4444355556	444443555556		
	9	998001	99980001	9999800001	999998000001		
2	1331	14441	15551	166661	1777771	Chart 2 from 11 ³ to 11 ⁷	Common configuration amendable to description by verbal formula for pattern
3	121	12321	1234321	123454321	12345654321	Chart 1 Sudit Family 1 lineage 1	Common configuration amenable to description by verbal formula for pattern
4	11	111	1111	11111	111111	Chart 3 Base 10 Dlgibreed	Ditto
	22	222	2222	22222	222222		

Discussion

The scope of the discussion is determined by the extent of the hesitancy of the tracking venture as portrayed in the question opening the title, to wit: Tracking Tumours into Number Community? And the retort of assurance conveyed by Yes, How and Why concluding the title. The idea of tracking tumours into number community itself might have been extemporaneous upon seeing both tumours and isodigitals as manifestations of quantity in form of swellings. Hesitancy portrayed in the topic

might have crept in upon some reflection on the classification of tumours and diagnosis of certain categories of them that are familiar lethal diseases. In effect the hesitancy is about whether the flight of the venture of tracking tumours into number community could have a soft landing on the runway littered with issues of classification, diagnosis, exploits and impact of tumours as outlined in Table 3. Fortunately, the topic starting with hesitancy ends with a retort of assurance in the three words thus: Yes, How and Why.

Table 3: Tumours vis a vis Isodigitals.

S/No	Particulars	Duo		Remarks
		Tumours in Medical Science	Isodigitals in Numeration Science	
1	Classification	(i) Into 2 categories (a) Benign (b) Malignant	(1) Into 2 categories (a) Pre-emptives (b) Non-pre-emptives	There is remarkable resemblance between the two in support of the analogy between them and the tracking of tumours in number community.
		(ii) Subdivisions under: (a) Benign <ul style="list-style-type: none"> • The fibrous tumour (fibroma) • The fatty tumour (lipoma) • The nerve tumour (neuroma) • The gland tumour (adenoma) • The blood vessel tumor (angioma) • The bony tumour (osteoma) • The wart (papilloma) (b) Malignant (cancer) <ul style="list-style-type: none"> • Carcinoma • Sarcoma • Leukemias 	(ii) Subdivision also exist (a) Under: Non-pre-emptives <ul style="list-style-type: none"> • Three subdivisions (Table 2) <ul style="list-style-type: none"> • Total • Partial • Twin (b) Under Pre-emptives, Table 2 <ul style="list-style-type: none"> • Palindromic -Peaked -Plateaued • Non-palindromic bifocal 	
2	Diagnosis meaning identification of disease by investigation of symptoms and history	Tumours characterized by intriguing latencies demanding diagnosis by medical professionals	Isodigitals characterized by intriguing latencies demanding 'diagnosis' by numeration experts	
		Details of procedures in diagnosis are better left to the medical experts in specialized areas for obvious reasons	Isodigital diagnosis here entails identifying <ul style="list-style-type: none"> • The class • Other details of formation including operatives and processes and formulary, as presented in the text 	
3	Exploits	The exploits of Tumours especially the malignant brands are pathogenic amongst humans and negative and well known for hurting, wasting and killing of victims	The exploits for isodigitals include selectivity of certain digits in the pre-emptive brands initiation of kenization and dekenization operations presented in the text	
4	Impact	Tumours in all ramifications are fully impactful to humanity. A great concern in wellbeing of man in terms of health and propelling research for combating them.	Isodigitals in all ramifications are impactful academically to humanity rather selectively, capable of exciting academic exploration for extending the frontiers of Numeration.	

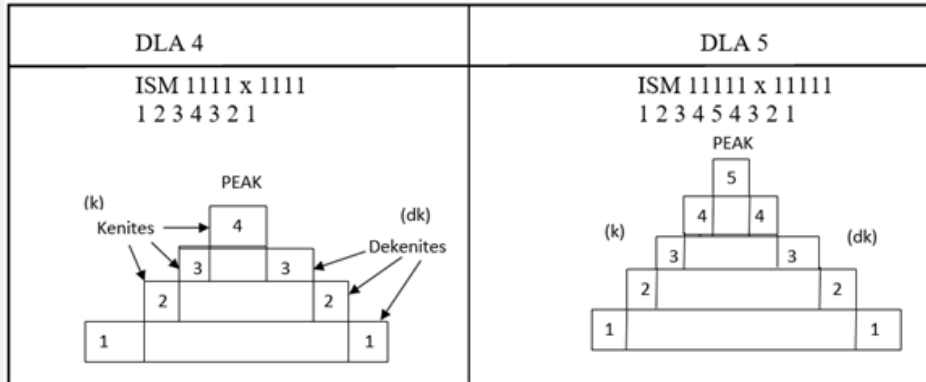
In classification, Tumours divide into two categories namely Benign and Malignant, so do Isodigitals divide into two, namely Pre-emptives and Non-pre-emptives as shown in subdivisions of classification in Table 4. Subdivisions of classification abound in both Tumours and Isodigitals as per Table 4, where according to Medicine for Nurses, 12th Edn (1975) R26 by W. Gordon Sears and R.S. Winwood there are as many as seven subdivisions of Benign Tumours (Table 4).

Isodigitation varieties and growth patterns with facilitators

a. Peaked palindromic pre-emptive isodigitals, ref. Chart 1 and Table 3. They are products of Isodigital Square Multiplication (ISM) of digit 1 in increasing DLA indexes evident from DLA 2. The incumbent DLA index (4) of the ISM is the peak(n). The upward slope is worked in serial steps from 1 at the base to

peak (n) ie 4 by kenization process of adding 1 successively while the downward slope from peak(n) dekenization process of subtracting 1 successively to 1 at the base again as shown in Figure 1. The serial products of kenization are christened kenites, while those of dekenization are dekenites, as depicted

in Figure 1. Kenization (adding 1) and dekenization (subtracting 1) working in concert produce duplicate serial isodigitation in ISM of digit 1 rather ironically in view of their opposing drives (Figure 1).



K: Kenites produced by *Kenization* process during ISM of 1 in increasing DLA's
 Dk: Dekenites produced by *Dekenization* process during ISM of 1 in increasing DLA's
Figure 1: Structure and growth pattern of peaked isodigital of ISM 1.

b. Non-palindromic bifocal pre-emptive isodigitals ref. Chart 1 and Table 3. They are products of Isodigital Square Multiplication (ISM) of digits 3,6,9 all in Sudit Family 3 in increasing DLA indexes and the isodigitation appears first in DLA 3 in each case. The digital engagements in the bifocal isodigitation are phenomenal and fall into generations of development, to wit: first generation, second generation, third

etc in terms of DLA index progression as depicted in Figure 2 (Tables 5 & 6).

Table 5: Kenizites and Dekenizites ref. Figure 2.

Part A	Kenizite for 0 of 09 = 1,	Dekenizite for 9 of 09 = 8
Part B	“ 3 of 36 = 4,	“ “6 of 36 = 5
Part C	8 of 81=9	1 of 81 = 0

ISM first digit	3	6	9
ISM DLA 1 first generation	3x3	6x6	9x9
DLA 1 Product generated	09	36	81
Leading digit/trailing digit	L ₁ T	L ₁ T ₁	L ₂ T ₂
ISM DLA 2	33x33	66x66	99x99
DLA 2 Product 2 nd Generation	1089	4356	9801
ISM DLA 3	333x333	666x666	999x999
DLA 3 Product 3 rd Generation	110889	443556	998001
ISM DLA 4	3333x3333	6666x6666	9999x9999
DLA 4 Product 4 th Generation	11108889	44435556	99980001
ISM DLA 5	33333x33333	66666x66666	99999x99999
DLA 5 Product 5 th Generation	1111088889	4444355556	9999800001
ISM DLA 6	333333x333333	6666666x6666666	999999x999999
DLA 6 Product 6 th Generation	111110888889	444443555556	999998000001

Key: L₁,L₂: Kenizers in ISM 3,6,9; T₁, T₂ = Dekenizers in ISM 3,6,9
Figure 2: Isodigitation growths at two sites and growth facilitators of ISM 3,6,9.

Table 6: Plateaued Palindromic Isodigitals of Base 11 Potentiation Multiplication.

Power (n)	11 ¹	11 ²	11 ³	11 ⁴	11 ⁵	11 ⁶	11 ⁷
Product	1 1	1 2 1	1 3 3 1	1 4 4 4 1	1 5 5 5 5 1	1 6 6 6 6 6 1	1 7 7 7 7 7 7 1

Diagnosis

They are commonplace in base 10 digibreed, the mega community of all integral numbers established by successive collateral posting as depicted in Chart 3. Each of them, no matter the type, has a unique and specific location in the base 10 mega community of numbers given by its own ROCI/RODI where RODI is the last digit of the number, and ROCI is the rest of the digits to the left of the RODI. The RODI, always single digit is domiciled in the base- strength of the digibreed displayed in the panel, while ROCI can be single or multidigital, depending on the DLA level of the number concerned and it is in a sequence domiciled in the corridor to the left of the digibreed field.

The two components come together during successive collateral posting in the serial formation of numbers: the ROD1 advancing geotropically (downward) in its column to the row of the ROCI, while the ROCI in the corridor advances *amatropically* (toward the right) in its row for *konostatic* placement (to the left) beside the RODI in its column, and form the number given ROCI/RODI in a unique and specific position in the mega number community. However, all integral numbers including the pre-emptive and non-per-emptive isodigitals share in the mode of formation and location in the base 10 digibreed, the mega community of numbers.

Findings

There are specific techniques for forming is digitations in numbers e.g. isodigital square multiplication (ISM) and Base 11 potentiation multiplication and Base 10 digibreed construction. There are digits favourable and digits unfavourable in ISM with respect of formation of isodigitations. For example, digits 3,6,9 of sudit family 3 and digit 1 of sudit family 1 alone are favourable for formation of isodigitation in numbers by ISM technique, while the rest of the five digits 2,5,8 in sudit family 2, and 4 and 7 in sudit family 2, are unfavourable. There are digits making up the DLA 1 product of ISM of digits 3, 6, 9 i.e. 09 for ISM 3;36 for ISM 6 and 81 for ISM 9 that initiate processes for creation of the isodigitation growth elements in the case of bifocal non-

palindromic isodigitals. So, there are growth promoters in terms of digits and processes owed to agents of isodigitation in numbers. The foregoing aspects of isodigitals in numbers may well be found of tumours in humans.

Conclusion and Significance

Tumours as swellings of tissues in humans and isodigitals also of swellings in numbers are both manifestations of quantity. There is massive evidence of resemblance between tumours in humans and isodigitals in numbers in justification of tracking tumours into number community, initially attended by hesitancy. The issues of isodigitation growth pattern and growth promoters as well as selective engagement of four digits out of the nine counting digits revealed so far show the effort of probing the intricacies of isodigitation in number communities is worthwhile at least academically. The significance of tracking tumours into number community is that with the encouraging correspondence of the features of both tumours and isodigitals as manifestations of quantity, scientists can be challenged to take them as clues for further research on tumours, whether malignant or not in the interest of health care and well-being of humanity.

Recommendations

The striking resemblance between tumours in humans and isodigitals in numbers should be a food for thought amongst scientists in medicine and numeration science.

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