

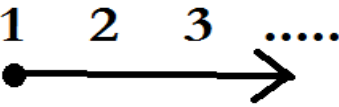
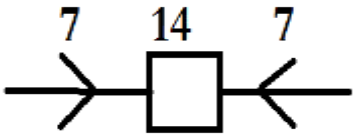
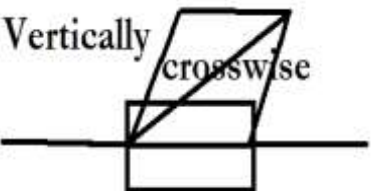
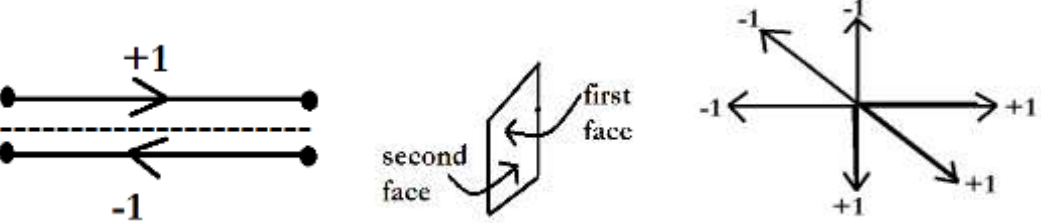
List of VM Consolidated documents of Dr. S. K. Kapoor

List 1 Different aspects of Vedic Mathematics

Aspect 39

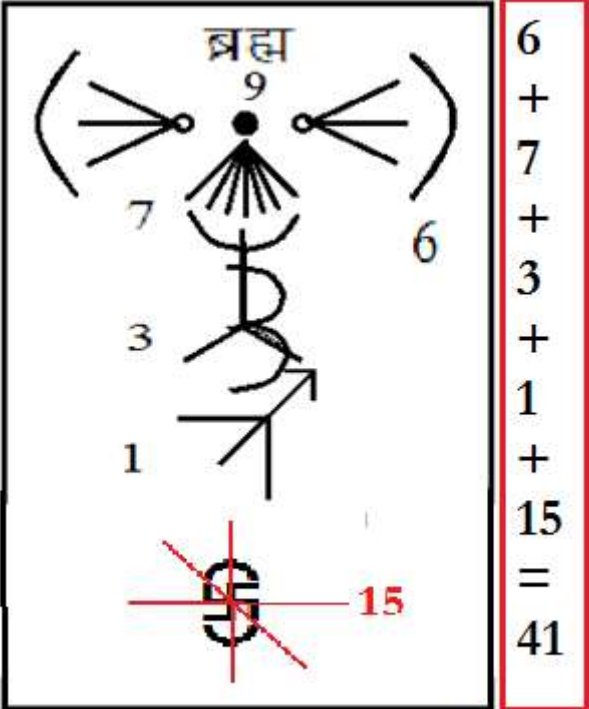
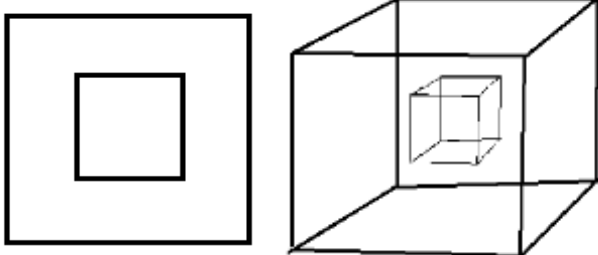
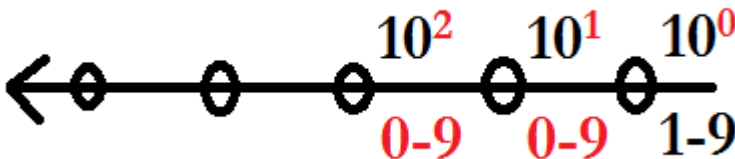
Higher dimensional reality base of Vedic Ganita sutras

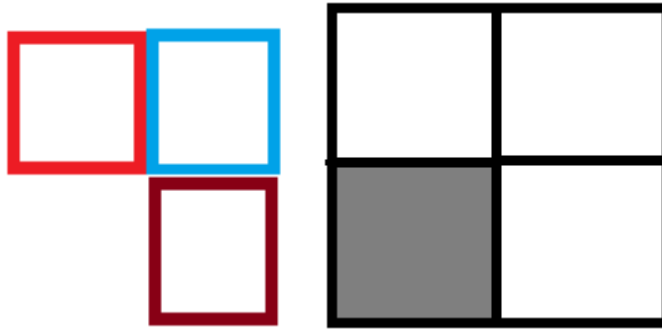
Sutrawise chase steps

Sutra	Format
1	<p style="text-align: center;">एकाधिकेन पूर्वेण ।</p> <p style="text-align: center;">1 2 3 </p> 
2	<p style="text-align: center;">निखिलं नवतश्चरमं दशतः</p> <p style="text-align: center;">7 14 7</p> 
3	<p style="text-align: center;">ऊर्ध्वतिर्यग्भ्याम्</p> <p style="text-align: center;">Vertically crosswise</p> 
4	<p style="text-align: center;">परावर्त्य योजयेत्</p> 

5	<p>शून्यं साम्यसमुच्चये</p> <p>सम = Equal उच्च = Height</p> <p>साम्य Parallel</p>
6	<p>(आनुरूप्ये) शून्यमन्यत् ।</p> <p>अर्ध आकाश 11+8 = 19 TCV (अष्ट) = 11 H6 = h3+h3</p>
7	<p>संकलनव्यवकलनाभ्याम् ।</p> <p>18 3 7 1 6+7 = 13 18</p> <p>TCV (व्यवकलन) = 29 = 18+11</p> <p>TCV (संकलन) = 31 = 18+13</p> <p>7 + 6 + 7 = 20 TCV (भ्याम्)</p>
8	<p>पूरणापूरणाभ्याम् ।</p>

	<p>Closed Interval = [] + (]</p> <p>Closed Interval Half Closed Interval</p>						
9	<p>चलनकलनाभ्याम् ।</p> <p>Closed Interval</p> <p>TCV (भ्याम्) = 20</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>NHS</td> <td>17</td> </tr> <tr> <td>20</td> <td>18</td> </tr> <tr> <td>SHS</td> <td>19</td> </tr> </table> <p>TCV (कलन) = 17</p> <p>TCV (चलन) = 18</p>	NHS	17	20	18	SHS	19
NHS	17						
20	18						
SHS	19						
10	यावदूनम् ।						

	<p style="text-align: center;">Divya Ganga Parvah</p> <div style="display: flex; align-items: center; justify-content: center;">  </div> <p style="text-align: center;">TCV (यावदूनम्) = 41</p>
11	<p style="text-align: center;">व्यष्टिसमष्टिः ।</p> <div style="display: flex; justify-content: center; align-items: center;">  </div>
12	<p style="text-align: center;">शेषाण्यङ्केन चरमेण ।</p> <div style="text-align: center;">  </div>



<p>First sub cube</p> <p>Structural components 8 corner points, 12 edges 6 surfaces, 1 volume = Total 27</p>	<p>Second sub Cube</p> <p>Structural components 4 corner points, 8 edges 5 surfaces, 1 volume = Total 18</p>	27+18
<p>Third sub cube</p> <p>Structural components 4 corner points, 8 edges 5 surfaces, 1 volume = Total 18</p>	<p>Fourth sub Cube</p> <p>Structural components 2 corner points, 5 edges 4 surfaces, 1 volume = Total 12</p>	
<p>Fifth sub cube</p> <p>Structural components 4 corner points, 8 edges 5 surfaces, 1 volume = Total 18</p>	<p>Sixth sub Cube</p> <p>Structural components 2 corner points, 5 edges 4 surfaces, 1 volume = Total 12</p>	18+12
<p>Seventh sub cube</p> <p>Structural components 2 corner points, 5 edges 4 surfaces, 1 volume = Total 12</p>	<p>Eighth sub Cube</p> <p>Structural components 1 corner points, 3 edges 3 surfaces, 1 volume = Total 8</p>	12+8

13

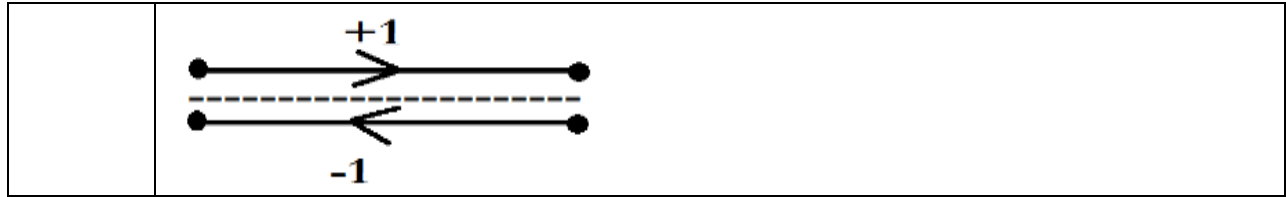
सोपान्त्यद्वयमन्त्यम्

$A^1:2B^0$ $A^2:4B^1$ $A^3:6B^2$ $A^4:8B^3$ $A^5:10B^4$ $A^6:12B^5$

$A^N:2B^{N-1}; N = 1, 2, 3, 4, 5, 6, \dots$

14

एकन्यूनेन पूर्वेण ।



15 गुणितसमुच्चयः ।


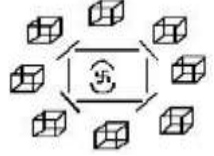
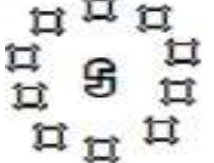

गू उ ण् इ त्र ऋ

र ऋ म् उ ँ ँ ऋ ऋ य अ ः

16 गुणकसमुच्चयः ।

गू उ ण् क् ऋ

र ऋ म् उ ँ ँ ऋ ऋ य अ ः

<p>क = 1 + 4 + 5 + 6 = 16</p>	<p>क ब्रह्मा</p>   <p>4-space</p>	<p>क शिव</p>   <p>5-space</p>	<p>क विष्णु</p>   <p>6-space</p>
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Higher dimensional reality base of Vedic Ganita sutras

1

Ganita sutras & Upsutras text

वैदिक गणित सूत्राणि:

1.1 Ganita Sutra गणित सूत्र

(1) एकाधिकेन पूर्वेण । (2) निखिलं नवतश्चरमं दशतः । (3) ऊर्ध्वतिर्यग्भ्याम् । (4) परावर्त्य योजयेत् । (5) शून्यं साम्यसमुच्चये । (6) (आनुरूप्ये) शून्यमन्त्यत् । (7) संकलनव्यवकलनाभ्याम् । (8) पूरणापूरणाभ्याम् । (9) चलनकलनाभ्याम् । (10) यावदूनम् । (11) व्यष्टिसमष्टिः । (12) शेषाण्यङ्केन चरमेण । (13) सोपान्त्यद्वयमन्त्यम् । (14) एकन्यूनेन पूर्वेण । (15) गुणितसमुच्चयः । (16) गुणकसमुच्चयः ।

This text is a composition of 283 letters.

1.2 Ganita Upsutra गणित उपसूत्र

(1) आनुरूप्येण । (2) शिष्यते शेषसंज्ञः । (3) आद्यमाद्ये नान्त्यमन्त्येन । (4) केवलैः सप्तकं गुण्यात् । (5) वेष्टनम् । (6) यावदूनं तावदूनम् । (7) यावदूनं तावदूनीकृत्य वर्गं च योजयेत् । (8) अन्त्ययोर्दशकेऽपि । (9) अन्त्ययोरेव । (10) समुच्चयगुणितः । (11) लोपनस्थपनाभ्याम् । (12) विलोकनम् । (13) गुणितसमुच्चयः समुच्चयगुणितः ।

This text is a composition of 236 letters.

Distinct letters of the text

(1) अ (2) आ (3) इ (4) ई (5) उ (6) ऊ (7) ऋ (8) ए (9) ओ (10) ऐ (11) क् (12) ख् (13) ग् (14) घ् (15) ङ् (16) च् (17) ज् (18) ञ् (19) ट् (20) ण् (21) त् (22) द् (23) ध् (24) न् (25) प् (26) भ् (27) म् (28) य् (29) र् (30) ल् (31) व् (32) श् (33) स् (34) ष् (35) ः (36) °

■

Translation of text in numbers alphabet

Ganita Sutra गणित सूत्र

- (1) एकाधिकेन पूर्वेण ।
(6, 1, 2, 7, 2, 1, 6, 8, 1), (5, 6, 2, 7, 6, 7, 1)
- (2) निखिलं नवतश्चरमं दशतः ।
(8, 2, 2, 2, 5, 1, 9), (8, 1, 7, 1, 4, 1, 2, 2, 1, 3, 1, 9, 1, 9),
(6, 1, 2, 1, 4, 1, 13)
- (3) ऊर्ध्वतिर्यग्भ्याम् ।
(6, 7, 2, 7, 1, 4, 2, 2, 1, 1, 3, 8, 1, 2, 9)
- (4) परावर्त्य योजयेत् ।
(5, 1, 3, 2, 7, 2, 1, 4, 1, 1), (1, 7, 4, 1, 1, 6, 4)
- (5) शून्यं साम्यसमुच्चये ।
(2, 6, 8, 1, 1, 9), (3, 2, 9, 1, 1, 3, 1, 9, 3, 2, 2, 1, 1, 6)
- (6) (आनुरूप्ये) शून्यमन्यत् ।
(2, 8, 3, 3, 6, 5, 1, 6), (2, 6, 8, 1, 1, 9, 1, 8, 1, 1, 4)
- (7) संकलनव्यवकलनाभ्याम् ।
(3, 1, 9, 1, 1, 5, 1, 8, 1, 7, 1, 1, 7, 1, 1, 1, 5, 1, 8, 2, 4, 1, 2, 9)
- (8) पूरणापूरणाभ्याम् ।
(5, 6, 3, 1, 7, 2, 5, 6, 3, 1, 7, 2, 4, 1, 2, 9)
- (9) चलनकलनाभ्याम् ।
(2, 1, 5, 1, 8, 1, 1, 1, 5, 1, 8, 2, 8, 1, 2, 9)
- (10) यावदूनम् ।
(1, 2, 7, 1, 6, 6, 8, 1, 9)

- (11) व्यष्टिसमष्टिः ।
(7, 1, 1, 6, 3, 2, 3, 1, 9, 1, 6, 3, 2, 13)
- (12) शेषाण्यङ्केन चरमेण ।
(2, 6, 6, 2, 7, 1, 1, 5, 1, 6, 8, 1), (2, 1, 3, 1, 9, 6, 7, 1)
- (13) सोपान्त्यद्वयमन्त्यम् ।
(3, 7, 5, 2, 8, 4, 1, 1, 6, 7, 1, 1, 1, 9, 1, 8, 4, 1, 1, 9)
- (14) एकन्यूनेन पूर्वेण ।
(6, 1, 1, 8, 1, 6, 8, 6, 8, 1), (5, 6, 2, 7, 6, 7, 1)
- (15) गुणितसमुच्चयः ।
(3, 3, 7, 2, 4, 1, 3, 1, 9, 3, 2, 2, 1, 1, 1, 13)
- (16) गुणकसमुच्चयः ।
(3, 3, 7, 1, 1, 1, 3, 1, 9, 3, 2, 2, 1, 1, 1, 13)

This text is a composition of 283 letters.

Ganita Upsutra गणित उपसूत्र

- (1) आनुरूप्येण ।
(2, 8, 3, 3, 6, 5, 1, 6, 7, 1)
- (2) शिष्यते शेषसंज्ञः ।
(2, 2, 6, 1, 1, 4, 6), (2, 6, 6, 1, 3, 1, 9, 4, 6, 1, 13)
- (3) आद्यमाद्येनान्त्यमन्त्येन ।
(2, 6, 7, 1, 9, 2, 6, 7, 6, 8, 2, 8, 4, 1, 1, 9, 1, 8, 4, 1, 6, 8, 1)
- (4) केवलैः सप्तकं गुण्यात् ।
(1, 6, 7, 1, 5, 8, 13), (3, 1, 5, 4, 1, 1, 1, 9), (3, 3, 7, 1, 2, 4)
- (5) वेष्टनम् ।
(7, 6, 6, 3, 1, 8, 1, 9)

(6) यावदूनं तावदूनम् ।

(1, 2, 7, 1, 6, 6, 8, 1, 9), (4, 2, 7, 1, 6, 6, 8, 1, 9)

(7) यावदूनं तावदूनीकृत्य वर्गं च योजयेत्

Yavadunam Tavadunikrtya Vargan ca Yojayet

(1, 2, 7, 1, 6, 6, 8, 1, 9), (4, 2, 7, 1, 6, 6, 8, 4, 1, 4, 4, 1, 1), (7, 1, 2, 3, 1, 9), (2, 1), (1, 7, 4, 1, 1, 6, 4)

(8) अन्त्ययोर्दशके ऽपि ।

(1, 8, 4, 1, 1, 1, 2, 7, 6, 1, 2, 1, 1, 6, 5, 5, 2)

(9) अन्त्ययोरेव ।

(1, 8, 4, 1, 1, 1, 7, 3, 6, 7, 1)

(10) समुच्चयगुणितः ।

(3, 1, 9, 3, 2, 2, 1, 1, 1, 3, 3, 7, 2, 4, 1, 13)

(11) लोपनस्थपनाभ्याम् ।

(5, 7, 5, 1, 8, 1, 3, 5, 1, 5, 1, 8, 2, 4, 2, 1, 9)

(12) विलोकनम् ।

(7, 2, 5, 7, 1, 1, 8, 1, 9)

(13) गुणितसमुच्चयः समुच्चयगुणितः ।

(3, 3, 7, 2, 4, 1, 3, 1, 9, 3, 2, 2, 1, 1, 1, 13),

(3, 1, 9, 3, 2, 2, 1, 1, 1, 3, 3, 7, 2, 4, 1, 13)

This text is a composition of 236 letters.



3

Translation into Sathapatya Spaces

Ganita Sutra गणित सूत्र

(1) एकाधिकेन पूर्वेण ।

(6, 1, 2, 7, 2, 1, 6, 8, 1), (5, 6, 2, 7, 6, 7, 1)

(6S, 1S, 2S, 7S, 2S, 1S, 6S, 8S, 1S), (5S, 6S, 2S, 7S, 6S, 7S, 1S)

(2) निखिलं नवतश्चरमं दशतः ।

(8, 2, 2, 2, 5, 1, 9), (8, 1, 7, 1, 4, 1, 2, 2, 1, 3, 1, 9, 1, 9),

(6, 1, 2, 1, 4, 1, 13)

(8S, 2S, 2S, 2S, 5S, 1S, 9S), (8S, 1S, 7S, 1S, 4S, 1S, 2S, 2S, 1S, 3S, 1S, 9S, 1S, 9S), (6S, 1S, 2S, 1S, 4S, 1S, 13S)

(3) ऊर्ध्वतिर्यग्भ्याम् ।

(6, 7, 2, 7, 1, 4, 2, 2, 1, 1, 3, 8, 1, 2, 9)

(6S, 7S, 2S, 7S, 1S, 4S, 2S, 2S, 1S, 1S, 3S, 8S, 1S, 2S, 9S)

(4) परावर्त्य योजयेत् ।

(5, 1, 3, 2, 7, 2, 1, 4, 1, 1), (1, 7, 4, 1, 1, 6, 4)

(5S, 1S, 3S, 2S, 7S, 2S, 1S, 4S, 1S, 1S), (1S, 7S, 4S, 1S, 1S, 6S, 4S)

(5) शून्यं साम्यसमुच्चये ।

(2, 6, 8, 1, 1, 9), (3, 2, 9, 1, 1, 3, 1, 9, 3, 2, 2, 1, 1, 6)

(2S, 6S, 8S, 1S, 1S, 9S),

(3S, 2S, 9S, 1S, 1S, 3S, 1S, 9S, 3S, 2S, 2S, 1S, 1S, 6S)

(6) (आनुरूप्ये) शून्यमन्यत् ।

(2, 8, 3, 3, 6, 5, 1, 6), (2, 6, 8, 1, 1, 9, 1, 8, 1, 1, 4)

(2S, 8S, 3S, 3S, 6S, 5S, 1S, 6S),

(2S, 6S, 8S, 1S, 1S, 9S, 1S, 8S, 1S, 1S, 4S)

(7) संकलनव्यवकलनाभ्याम् ।

(3, 1, 9, 1, 1, 5, 1, 8, 1, 7, 1, 1, 7, 1, 1, 1, 5, 1, 8, 2, 4, 1, 2, 9)

(3S, 1S, 9S, 1S, 1S, 5S, 1S, 8S, 1S, 7S, 1S, 1S, 7S, 1S, 1S, 1S, 5S, 1S, 8S, 2S, 4S, 1S, 2S, 9S)

(8) पूरणापूरणाभ्याम् ।

(5, 6, 3, 1, 7, 2, 5, 6, 3, 1, 7, 2, 4, 1, 2, 9)

(5S, 6S, 3S, 1S, 7S, 2S, 5S, 6S, 3S, 1S, 7S, 2S, 4S, 1S, 2S, 9S)

(9) चलनकलनाभ्याम् ।

(2, 1, 5, 1, 8, 1, 1, 1, 5, 1, 8, 2, 8, 1, 2, 9)

(2S, 1S, 5S, 1S, 8S, 1S, 1S, 1S, 5S, 1S, 8S, 2S, 8S, 1S, 2S, 9S)

(10) यावदूनम् ।

(1, 2, 7, 1, 6, 6, 8, 1, 9)

(1S, 2S, 7S, 1S, 6S, 6S, 8S, 1S, 9S)

(11) व्यष्टिसमष्टिः ।

(7, 1, 1, 6, 3, 2, 3, 1, 9, 1, 6, 3, 2, 13)

(7S, 1S, 1S, 6S, 3S, 2S, 3S, 1S, 9S, 1S, 6S, 3S, 2S, 13S)

(12) शेषाण्यङ्केन चरमेण ।

(2, 6, 6, 2, 7, 1, 1, 5, 1, 6, 8, 1), (2, 1, 3, 1, 9, 6, 7, 1)

(2S, 6S, 6S, 2S, 7S, 1S, 1S, 5S, 1S, 6S, 8S, 1S),

(2S, 1S, 3S, 1S, 9S, 6S, 7S, 1S)

(13) सोपान्त्यद्वयमन्त्यम् ।

(3, 7, 5, 2, 8, 4, 1, 1, 6, 7, 1, 1, 1, 9, 1, 8, 4, 1, 1, 9)

(3S, 7S, 5S, 2S, 8S, 4S, 1S, 1S, 6S, 7S, 1S, 1S, 1S, 9S, 1S, 8S, 4S, 1S, 1S, 9S)

(14) एकन्यूनेन पूर्वेण ।

(6, 1, 1, 8, 1, 6, 8, 6, 8, 1), (5, 6, 2, 7, 6, 7, 1)

(6S, 1S, 1S, 8S, 1S, 6S, 8S, 6S, 8S, 1S), (5S, 6S, 2S, 7S, 6S, 7S, 1S)

(15) गुणितसमुच्चयः ।

(3, 3, 7, 2, 4, 1, 3, 1, 9, 3, 2, 2, 1, 1, 1, 13)

(3S, 3S, 7S, 2S, 4S, 1S, 3S, 1S, 9S, 3S, 2S, 2S, 1S, 1S, 1S, 13S)

(16) गुणकसमुच्चयः ।

(3, 3, 7, 1, 1, 1, 3, 1, 9, 3, 2, 2, 1, 1, 1, 13)

(3S, 3S, 7S, 1S, 1S, 1S, 3S, 1S, 9S, 3S, 2S, 2S, 1S, 1S, 1S, 13S)

This text is a composition of 283 letters.

Ganita Upsutra गणित उपसूत्र

(1) आनुरूप्येण ।

(2, 8, 3, 3, 6, 5, 1, 6, 7, 1)

(2S, 8S, 3S, 3S, 6S, 5S, 1S, 6S, 7S, 1S)

(2) शिष्यते शेषसंज्ञः ।

(2, 2, 6, 1, 1, 4, 6), (2, 6, 6, 1, 3, 1, 9, 4, 6, 1, 13)

(2S, 2S, 6S, 1S, 1S, 4S, 6S), (2S, 6S, 6S, 1S, 3S, 1S, 9S, 4S, 6S, 1S, 13S)

(3) आद्यमाद्येनान्त्यमन्त्येन ।

(2, 6, 7, 1, 9, 2, 6, 7, 6, 8, 2, 8, 4, 1, 1, 9, 1, 8, 4, 1, 6, 8, 1)

(2S, 6S, 7S, 1S, 9S, 2S, 6S, 7S, 6S, 8S, 2S, 8S, 4S, 1S, 1S, 9S, 1S, 8S, 4S, 1S, 6S, 8S, 1S)

(4) केवलैः सप्तकं गुण्यात् ।

(1, 6, 7, 1, 5, 8, 13), (3, 1, 5, 4, 1, 1, 1, 9), (3, 3, 7, 1, 2, 4)

(1S, 6S, 7S, 1S, 5S, 8S, 13S), (3S, 1S, 5S, 4S, 1S, 1S, 1S, 9S),

(3S, 3S, 7S, 1S, 2S, 4S)

(5) वेष्टनम् ।

(7, 6, 6, 3, 1, 8, 1, 9)

(7S, 6S, 6S, 3S, 1S, 8S, 1S, 9S)

(6) यावदूनं तावदूनम् ।

(1, 2, 7, 1, 6, 6, 8, 1, 9), (4, 2, 7, 1, 6, 6, 8, 1, 9)

(1S, 2S, 7S, 1S, 6S, 6S, 8S, 1S, 9S),
(4S, 2S, 7S, 1S, 6S, 6S, 8S, 1S, 9S)

(7) यावदूनं तावदूनीकृत्य वर्गं च योजयेत्

Yavadunam Tavadunikrtya Vargan ca Yojayet

(1, 2, 7, 1, 6, 6, 8, 1, 9), (4, 2, 7, 1, 6, 6, 8, 4, 1, 4, 4, 1, 1),
(7, 1, 2, 3, 1, 9), (2, 1), (1, 7, 4, 1, 1, 6, 4)
(1S, 2S, 7S, 1S, 6S, 6S, 8S, 1S, 9S),
(4S, 2S, 7S, 1S, 6S, 6S, 8S, 4S, 1S, 4S, 4S, 1S, 1S),
(7S, 1S, 2S, 3S, 1S, 9S), (2S, 1S), (1S, 7S, 4S, 1S, 1S, 6S, 4S)

(8) अन्त्ययोर्दशके ऽपि ।

(1, 8, 4, 1, 1, 1, 2, 7, 6, 1, 2, 1, 1, 6, 5, 5, 2)
(1S, 8S, 4S, 1S, 1S, 1S, 2S, 7S, 6S, 1S, 2S, 1S, 1S, 6S, 5S, 5S, 2S)

(9) अन्त्ययोरेव ।

(1, 8, 4, 1, 1, 1, 7, 3, 6, 7, 1)
(1S, 8S, 4S, 1S, 1S, 1S, 7S, 3S, 6S, 7S, 1S)

(10) समुच्चयगुणितः ।

(3, 1, 9, 3, 2, 2, 1, 1, 1, 3, 3, 7, 2, 4, 1, 13)
(3S, 1S, 9S, 3S, 2S, 2S, 1S, 1S, 1S, 3S, 3S, 7S, 2S, 4S, 1S, 13S)

(11) लोपनस्थपनाभ्याम् ।

(5, 7, 5, 1, 8, 1, 3, 5, 1, 5, 1, 8, 2, 4, 2, 1, 9)
(5S, 7S, 5S, 1S, 8S, 1S, 3S, 5S, 1S, 5S, 1S, 8S, 2S, 4S, 2S, 1S, 9S)

(12) विलोकनम् ।

(7, 2, 5, 7, 1, 1, 8, 1, 9)
(7S, 2S, 5S, 7S, 1S, 1S, 8S, 1S, 9S)

(13) गुणितसमुच्चयः समुच्चयगुणितः ।

(3, 3, 7, 2, 4, 1, 3, 1, 9, 3, 2, 2, 1, 1, 1, 13),
(3, 1, 9, 3, 2, 2, 1, 1, 1, 3, 3, 7, 2, 4, 1, 13)

(3S, 3S, 7S, 2S, 4S, 1S, 3S, 1S, 9S, 3S, 2S, 2S, 1S, 1S, 1S, 13S),

(3S, 1S, 9S, 3S, 2S, 2S, 1S, 1S, 1S, 3S, 3S, 7S, 2S, 4S, 1S, 13S)

This text is a composition of 236 letters.



4

Translation into Sathapatya Bodies

Ganita Sutra गणित सूत्र

(1) एकाधिकेन पूर्वेण ।

(6, 1, 2, 7, 2, 1, 6, 8, 1), (5, 6, 2, 7, 6, 7, 1)

(H6, H1, H2, H7, H2, H1, H6, H8, H1), (H5, H6, H2, H7, H6, H7, H1)

(2) निखिलं नवतश्चरमं दशतः ।

(8, 2, 2, 2, 5, 1, 9), (8, 1, 7, 1, 4, 1, 2, 2, 1, 3, 1, 9, 1, 9),

(6, 1, 2, 1, 4, 1, 13)

(H8, H2, H2, H2, H5, H1, H9),

(H8, H1, H7, H1, H4, H1, H2, H2, H1, H3, H1, H9, H1, H9),

(H6, H1, H2, H1, H4, H1, H13)

(3) ऊर्ध्वतिर्यग्भ्याम् ।

(6, 7, 2, 7, 1, 4, 2, 2, 1, 1, 3, 8, 1, 2, 9)

(H6, H7, H2, H7, H1, H4, H2, H2, H1, H1, H3, H8, H1, H2, H9)

(4) परावर्त्य योजयेत् ।

(5, 1, 3, 2, 7, 2, 1, 4, 1, 1), (1, 7, 4, 1, 1, 6, 4)

(H5, H1, H3, H2, H7, H2, H1, H4, H1, H1),

(H1, H7, H4, H1, H1, H6, H4)

(5) शून्यं साम्यसमुच्चये ।

(2, 6, 8, 1, 1, 9), (3, 2, 9, 1, 1, 3, 1, 9, 3, 2, 2, 1, 1, 6)

(H2, H6, H8, H1, H1, H9),

(H3, H2, H9, H1, H1, H3, H1, H9, H3, H2, H2, H1, H1, H6)

(6) (आनुरूप्ये) शून्यमन्यत् ।

(2, 8, 3, 3, 6, 5, 1, 6), (2, 6, 8, 1, 1, 9, 1, 8, 1, 1, 4)

(H2, H8, H3, H3, H6, H5, H1, H6),
(H2, H6, H8, H1, H1, H9, H1, H8, H1, H1, H4)

(7) संकलनव्यवकलनाभ्याम् ।

(3, 1, 9, 1, 1, 5, 1, 8, 1, 7, 1, 1, 7, 1, 1, 1, 5, 1, 8, 2, 4, 1, 2, 9)
(H3, H1, H9, H1, H1, H5, H1, H8, H1, H7, H1, H1, H7, H1, H1, H1,
H5, H1, H8, H2, H4, H1, H2, H9)

(8) पूरणापूरणाभ्याम् ।

(5, 6, 3, 1, 7, 2, 5, 6, 3, 1, 7, 2, 4, 1, 2, 9)
(H5, H6, H3, H1, H7, H2, H5, H6, H3, H1, H7, H2, H4, H1, H2, H9)

(9) चलनकलनाभ्याम् ।

(2, 1, 5, 1, 8, 1, 1, 1, 5, 1, 8, 2, 8, 1, 2, 9)
(H2, H1, H5, H1, H8, H1, H1, H1, H5, H1, H8, H2, H8, H1, H2, H9)

(10) यावदूनम् ।

(1, 2, 7, 1, 6, 6, 8, 1, 9)
(H1, H2, H7, H1, H6, H6, H8, H1, H9)

(11) व्यष्टिसमष्टिः ।

(7, 1, 1, 6, 3, 2, 3, 1, 9, 1, 6, 3, 2, 13)
(H7, H1, H1, H6, H3, H2, H3, H1, H9, H1, H6, H3, H2, H13)

(12) शेषाण्यङ्केन चरमेण ।

(2, 6, 6, 2, 7, 1, 1, 5, 1, 6, 8, 1), (2, 1, 3, 1, 9, 6, 7, 1)
(H2, H6, H6, H2, H7, H1, H1, H5, H1, H6, H8, H1),
(H2, H1, H3, H1, H9, H6, H7, H1)

(13) सोपान्त्यद्वयमन्त्यम् ।

(3, 7, 5, 2, 8, 4, 1, 1, 6, 7, 1, 1, 1, 9, 1, 8, 4, 1, 1, 9)
(H3, H7, H5, H2, H8, H4, H1, H1, H6, H7, H1, H1, H1, H9, H1, H8,
H4, H1, H1, H9)

(14) एकन्यूनेन पूर्वेण ।

(6, 1, 1, 8, 1, 6, 8, 6, 8, 1), (5, 6, 2, 7, 6, 7, 1)
(H6, H1, H1, H8, H1, H6, H8, H6, H8, H1),

(H5, H6, H2, H7, H6, H7, H1)

(15) गुणितसमुच्चयः ।

(3, 3, 7, 2, 4, 1, 3, 1, 9, 3, 2, 2, 1, 1, 1, 13)

(H3, H3, H7, H2, H4, H1, H3, H1, H9, H3, H2, H2, H1, H1, H1, H13)

(16) गुणकसमुच्चयः ।

(3, 3, 7, 1, 1, 1, 3, 1, 9, 3, 2, 2, 1, 1, 1, 13)

(H3, H3, H7, H1, H1, H1, H3, H1, H9, H3, H2, H2, H1, H1, H1, H13)

This text is a composition of 283 letters.

Ganita Upsutra गणित उपसूत्र

(1) आनुरूप्येण ।

(2, 8, 3, 3, 6, 5, 1, 6, 7, 1)

(H2, H8, H3, H3, H6, H5, H1, H6, H7, H1)

(2) शिष्यते शेषसंज्ञः ।

(2, 2, 6, 1, 1, 4, 6), (2, 6, 6, 1, 3, 1, 9, 4, 6, 1, 13)

(H2, H2, H6, H1, H1, H4, H6),

(H2, H6, H6, H1, H3, H1, H9, H4, H6, H1, H13)

(3) आद्यमाद्येनान्त्यमन्त्येन ।

(2, 6, 7, 1, 9, 2, 6, 7, 6, 8, 2, 8, 4, 1, 1, 9, 1, 8, 4, 1, 6, 8, 1)

(H2, H6, H7, H1, H9, H2, H6, H7, H6, H8, H2, H8, H4, H1, H1, H9, H1, H8, H4, H1, H6, H8, H1)

(4) केवलैः सप्तकं गुण्यात् ।

(1, 6, 7, 1, 5, 8, 13), (3, 1, 5, 4, 1, 1, 1, 9), (3, 3, 7, 1, 2, 4)

(H1, H6, H7, H1, H5, H8, H3), (H3, H1, H5, H4, H1, H1, H1, H9),

(H3, H3, H7, H1, H2, H4)

(5) वेष्टनम् ।

(7, 6, 6, 3, 1, 8, 1, 9)

(H7, H6, H6, H3, H1, H8, H1, H9)

(6) यावदूनं तावदूनम् ।

(1, 2, 7, 1, 6, 6, 8, 1, 9), (4, 2, 7, 1, 6, 6, 8, 1, 9)

(H1, H2, H7, H1, H6, H6, H8, H1, H9),

(H4, H2, H7, H1, H6, H6, H8, H1, H9)

(7) यावदूनं तावदूनीकृत्य वर्गं च योजयेत्

Yavadunam Tavadunikrtya Vargan ca Yojayet

(1, 2, 7, 1, 6, 6, 8, 1, 9), (4, 2, 7, 1, 6, 6, 8, 4, 1, 4, 4, 1, 1),

(7, 1, 2, 3, 1, 9), (2, 1), (1, 7, 4, 1, 1, 6, 4)

(H1, H2, H7, H1, H6, H6, H8, H1, H9),

(H4, H2, H7, H1, H6, H6, H8, H4, H1, H4, H4, H1, H1),

(H7, H1, H2, H3, H1, H9), (H2, H1), (H1, H7, H4, H1, H1, H6, H4)

(8) अन्त्ययोर्दशके ऽपि ।

(1, 8, 4, 1, 1, 1, 2, 7, 6, 1, 2, 1, 1, 6, 5, 5, 2)

(H1, H8, H4, H1, H1, H1, H2, H7, H6, H1, H2, H1, H1, H6, 5, H5,
H2)

(9) अन्त्ययोरेव ।

(1, 8, 4, 1, 1, 1, 7, 3, 6, 7, 1)

(H1, H8, H4, H1, H1, H1, H7, H3, H6, H7, H1)

(10) समुच्चयगुणितः ।

(3, 1, 9, 3, 2, 2, 1, 1, 1, 3, 3, 7, 2, 4, 1, 13)

(H3, H1, H9, H3, H2, H2, H1, H1, H1, H3, H3, H7, H2, H4, H1, H13)

(11) लोपनस्थपनाभ्याम् ।

(5, 7, 5, 1, 8, 1, 3, 5, 1, 5, 1, 8, 2, 4, 2, 1, 9)

(H5, H7, H5, H1, H8, H1, H3, H5, H1, H5, H1, H8, H2, H4, H2, H1,
H9)

(12) विलोकनम् ।

(7, 2, 5, 7, 1, 1, 8, 1, 9)

(H7, H2, H5, H7, H1, H1, H8, H1, H9)

(13) गुणितसमुच्चयः समुच्चयगुणितः ।

(3, 3, 7, 2, 4, 1, 3, 1, 9, 3, 2, 2, 1, 1, 1, 13),

(3, 1, 9, 3, 2, 2, 1, 1, 1, 3, 3, 7, 2, 4, 1, 13)

(H3, H3, H7, H2, H4, H1, H3, H1, H9, H3, H2, H2, H1, H1, H1, H13),

(H3, H1, H9, H3, H2, H2, H1, H1, H1, H3, H3, H7, H2, H4, H1, H13)

This text is a composition of 236 letters.

■

5

Letters of TCV 6

1. (ए), 2. (ञ्), 3. (ढ्), 4. (द्), 5. (फ्), 6. (ष्)

Devnagri Alphabet
देवनागरी वर्णमाला

Nine vowels

अ इ उ ऋ लृ ए ओ ऐ औ

5 x 5 Varga consonants

क ख ग घ ङ

च छ ज झ ञ

ट ठ ड ढ ण

त थ द ध न

प फ ब भ म

Anthsthaletters:

य र ल व

Ushmana letters:

श स ष ह

Yamaletters



■

6

Placement features of letters of TCV 6

Letter (ए) sixth vowel

Sixth vowel (ए) is of sathapatya values of 6-space dimensional frame. It is a set up of six creative (4-space) dimensions.

Letter (अ) fifth placement of second row

Fifth placement letter (अ) of second row is the base (fifth fold) of spatial order 4-space body (hyper cube 4): (2, 3, 4, 5, 6).

Letter (इ) fourth placement of third row

Fourth placement letter (इ) of third row is the origin (fourth fold) of solid order 5-space body (hyper cube 5): (3, 4, 5, 6).

Letter (उ) third placement of fourth row

Third placement letter (३) of fourth row is the domain (third fold) of creative order 6-space body (Hyper cube 6) : (4, 5, 6, 7).

Letter (५) second placement of fifth row

Second placement letter (५) of fifth row is the boundary (second fold) of transcendental order 7-space body (Hyper cube 7): (5, 6, 7, 8).

Letter (७) third placement of ushmana letters

Third placement letter (७) of quadruple ushmana letters is of format features of self referral order (6-space as dimension of 8-space as origin of 7-space, transcending from origin and getting superimposed upon the transcendental order (5-space as dimension of 7-space as domain).

■

Vedic Ganita Sutras and Upsutras Text

Explicit formulations of values (0, 1, 2, 7, 9, 10) in text

Explicit and implicit features

Vedic Ganita sutras and upsutras text is of explicit superstructure of mathematical domain upon implicit foundation for the superstructure. Of values range 0 to 10, there are explicit formulations of values (0, 1, 2, 7, 9, 10), while remaining values (3, 4, 5, 6, 8) as such are of implicit existence as foundation for superstructure of mathematical domain in terms of explicit values (0, 1, 2, 7, 9, 10).

Chatushpeet foundation

Vedic Ganita sutras explicit mathematical domain is manifested superstructure upon chatushpeet foundation. The formulation chatushpeet is of TCV value 30, which is parallel with summation value of four folds (6, 7, 8, 9) of hyper cube 8, the representative regular body of 8-space. The chatushpeet as a seat of creator (Brahma) is of format features of hyper cube 4 parallel with hyper cube 4, a 4-space domain enveloped within a solid boundary of eight components. 4-space domain is of spatial order, and as such, the solid boundary components, on its take off from 4-space domain, in first phase, manifests (3, 4, 5, 6) / hyper cube 5, and in the second phase, 6-space origin of 5-space manifests (6, 7, 8, 9) / hyper cube 8. Along this foundation, Ganita sutras mathematical domain is of the features and values of chase of nav braham (9-space).

High dimensional reality base of vedic Ganita sutras

Chatushpeet as implicit foundation of mathematical domain of Ganita sutra makes Ganita sutras of higher dimensional reality base parallel with the format features of Asht Prakarti (8 fold nature / 8-space).

Self referral order of asht prakarti

6-space as dimension of 8-space makes existence phenomenon of our solar universe as the domain manifesting with dynamic state of surya (6-space as dimension).

The formulation (सूर्य रश्मि) surya rashmi (rays of the sun) is of TCV value 30 parallel with TCV value of Chatushpeet. With it, the mathematical domain of Ganita sutras goes parallel with existence phenomenon of chatushpeet foundation within surya rashmi / rays of the sun.

Formulation Shabad Braham (शब्द ब्रह्म)

The reach of formulation (शब्द ब्रह्म) as of its ten folds value is anant / infinitely infinite along chatushpeet as braham chatushpeet, glimpsed by of (कृष्णद्वैपायन) Krishan dweipayan:

Fold	Formulation Shabad (शब्द) Value	Total value	Fold	Formulation Braham (ब्रह्म) Value	Total value
1 W	1	1	1 W	1	1
2 S	2	3	2 S	2	3
3 L	5	8	3 L	6	9
4 T	17	25	4 T	28	37
5 TT	45	70	5 TT	78	115
6 FF	117	187	6 FF	140	255
7 F	56	243	7 F	66	321
8 H	58	301	8 H	100	421
9 R	135	436	9 R	200	621
10 SR	287	723	10 SR	428	1049

$1830 = 58+723+1049$, $58 = 28+30$, TCV (कृष्णद्वैपायन) = 58 = TCV (ब्रह्म चतुष्पीठ).

1830 = 5×366 = Complete five years timeline of Sanvatsar Yuga of 1830 tithis (days).



Higher dimensional reality base of vedic Ganita sutras

Ganita sutras

Ganita Sutra गणित सूत्र

(1) एकाधिकेन पूर्वेण । (2) निखिलं नवतश्चरमं दशतः । (3) ऊर्ध्वतिर्यग्भ्याम् । (4) परावर्त्य योजयेत् । (5) शून्यं साम्यसमुच्चये । (6) (आनुरूप्ये) शून्यमन्यत् । (7) संकलनव्यवकलनाभ्याम् । (8) पूरणापूरणाभ्याम् । (9) चलनकलनाभ्याम् । (10) यावदूनम् । (11) व्यष्टिसमष्टिः । (12) शेषाण्यङ्केन चरमेण । (13) सोपान्त्यद्वयमन्त्यम् । (14) एकन्यूनेन पूर्वेण । (15) गुणितसमुच्चयः । (16) गुणकसमुच्चयः ।

This text is a composition of 283 letters.

Ganita Upsutra गणित उपसूत्र

(1) आनुरूप्येण । (2) शिष्यते शेषसंज्ञः । (3) आद्यमाद्ये नान्त्यमन्त्येन । (4) केवलैः सप्तकं गुण्यात् । (5) वेष्टनम् । (6) यावदूनं तावदूनम् । (7) यावदूनं तावदूनीकृत्य वर्गं च योजयेत् । (8) अन्त्ययोर्दशकेऽपि । (9) अन्त्ययोरेव । (10) समुच्चयगुणितः । (11) लोपनस्थपनाभ्याम् । (12) विलोकनम् । (13) गुणितसमुच्चयः समुच्चयगुणितः ।

This text is a composition of 236 letters.

Bharti Krishna Tritya Ji Maharaj





The Author
Jagadguru Sankarācārya
Śrī Bharatī Kṛṣṇa Tīrthaji Mahārāja
(1884—1960)

VEDIC MATHEMATICS

OR

*Sixteen simple Mathematical
Formulae from the Vedas*

(For One-line Answers to all Mathematical Problems)

By

JAGADGURU
SWĀMĪ ŚRĪ BHARATĪ KṚṢṆA TĪRTHAJI MAHARAJA,
SĀNKAĀCĀRYA OF GOVARDHANA MATHA, PURI

General Editor

DR. V. S. AGRAWALA

MOTILAL BANARSIDASS
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॥ ॐ श्रीः ॥

VEDIC MATHEMATICS

OR

SIXTEEN SIMPLE MATHEMATICAL FORMULAE FROM THE VEDAS

SIXTEEN SŪTRAS AND THEIR COROLLARIES

Sūtras	Sub-Sūtras or Corollaries
1. एकाधिकेन पूर्वेण <i>Ekādhikena Pūrveṇa</i> (also a corollary)	1. आनुरूप्येण <i>Anurūpyeṇa</i>
2. निःशुलं नवतदपरमं दशतः <i>Niḥśulaṃ Navataścarama map Daśataḥ</i>	2. शिष्यते शेःसंज्ञः <i>Śiṣyate Śeṣasaṃjñāḥ</i>
3. ऊर्ध्वतिर्यग्भ्याम् <i>Ūrdhva-tiryagbhyām</i>	3. आद्यमाद्येनान्त्यमन्त्येन <i>Ādyamādyenāntya-mantye- na</i>
4. परावर्त्यं योजयेत् <i>Parāvartya Yojayet</i>	4. केवलैः सप्तकं गुण्यत् <i>Kevalaiḥ Sapṭakaṃ Guṇ- yit</i>
5. शून्यं साम्यसमुच्चये <i>Sūnyaṃ Sāmyasamuccaye</i>	6. वेष्टनम् <i>Veṣṭanam</i>
6. (आनुरूप्ये) शून्यमन्यत् <i>(Anurūpye) Sūnyamanyat</i>	6. यावदूनं तावदूनम् <i>Yāvadūnaṃ Tāvadūnaṃ</i>
7. संकलनव्यवकलनाभ्याम् <i>Saṅkalana-vyavakalanā- bhyām</i> (also a corollary)	7. यावदूनं तावदूनीकृत्य वर्गं च योजयेत् <i>Yāvadūnaṃ Tāvadūnī- kṛtya Vargaṅca Yojayet</i>
8. पुराणपुराणाम्ब्याम् <i>Pūraṇāpūraṇābhyām</i>	8. अन्त्ययोर्दशकेऽपि <i>Antyayordāśake'pi</i>
9. चलनकलनाभ्याम् <i>Calana-Kalanābhyām</i>	9. अन्त्ययोरेव <i>Antyayoreva</i>

(1a)

<i>Sūtras</i>		<i>Sub-Sūtras or Corollaries</i>	
10.	यावदूतम् <i>Yāvādūtam</i>	10.	समुच्चयगुणितः <i>Samuccayaguṇitaḥ</i>
11.	व्यष्टिसप्तष्टिः <i>Vyaṣṭisamaṣṭiḥ</i>	11.	लोपनस्थापनाभ्याम् <i>Lopanasthāpanābhyām</i>
12.	शेषाभ्यङ्गेन चरमेण <i>Śeṣābhyāṅgena Carameṇa</i>	12.	विलोकनम् <i>Vilokanam</i>
13.	सोपान्त्यद्वयमन्त्यम् <i>Sopāntyadvayamantyaṃ</i>	13.	गुणितसमुच्चयः समुच्चयगुणितः <i>Guṇitasamuccayaḥ</i>
14.	एकान्युनेन पूर्वेण <i>Ekanyūneṇa Pūrveṇa</i>		<i>Samuccayaguṇitaḥ</i>
15.	गुणितसमुच्चयः <i>Guṇitasamuccayaḥ</i>		
16.	गुणकसमुच्चयः <i>Guṇakasamuccayaḥ</i>		

[Note—This list has been compiled from stray references in the text—EDITOR.]

Table of letters and TCV values of Ganita Sutra

C1	C2	C3	C4	C5
1	16	16	75	75
2	28	44	107	182
3	15	59	56	238
4	17	76	52	290
5	20	96	71	361
6	19	115	76	437
7	24	139	85	522
8	16	155	68	590
9	16	171	56	646
10	09	180	41	687
11	14	194	58	745
12	20	214	75	820
13	20	234	80	900
14	17	251	84	984
15	16	267	56	1040
16	16	283	55	1095
Total 16		283		1095

Integrated format of 16 sutras and 13 upsutras as serial numbers 1 to 29

S N	Placement of Sutra / Upsutra
1	Sutra-1
2	Upsutra-1
3	Sutra-2
4	Upsutra-2
5	Sutra-3
6	Upsutra-3
7	Sutra-4
8	Upsutra-4
9	Sutra-5
10	Upsutra-5
11	Sutra-6
12	Upsutra-6
13	Sutra-7
14	Upsutra-7
15	Sutra-8
16	Sutra-9
17	Upsutra-8
18	Sutra-10
19	Upsutra-9

20	Sutra-11
21	Upsutra-10
22	Sutra-12
23	Upsutra-11
24	Sutra-13
25	Upsutra-12
26	Sutra-14
27	Upsutra-13
28	Sutra-15
29	Sutra-16

Table of letters and TCV values of Ganita Upsutra

C1	C2	C3	C4	C5
1	10	10	42	42
2	18	28	74	116
3	23	51	96	212
4	21	72	92	304
5	08	80	41	345
6	18	98	85	430
7	37	135	149	579
8	16 (17)	151*	53 (54)	632*
9	11	162	41	673
10	16	178	56	729
11	17	195	73	802
12	09	204	44	846
13	32	236	112	958
Total 13		236		958

C1	C2	C3	C4	
1	16	75	2	
2	28	107	3	
3	15	56	1	
4	17	52	2	
5	20	71	2	
6	19	76	2	
7	24	85	1	
8	16	68	1	
9	16	56	1	
10	09	41	1	
11	14	58	1	
12	20	75	2	
13	20	80	1	
14	17	84	2	
15	16	56	1	
16	16	55	1	
16	283	1095	24	
1	10	42	1	
2	18	74	2	
3	23	96	1	
4	21	92	3	
5	08	41	1	
6	18	85	2	
7	37	149	5	
8	16 (17)	53 (54)	1	
9	11	41	1	
10	16	56	1	
11	17	73	1	
12	09	44	1	
13	32	112	2	
13	236	958	22	

Translation of letters text into numbers and sathapatya

Letters text

एकाधिकेन पूर्वेण ।

Numbers text

(6, 1, 2, 7, 2, 1, 6, 8, 1), (5, 6, 2, 7, 6, 7, 1)

Sathapatya text

(6S, 1S, 2S, 7S, 2S, 1S, 6S, 8S, 1S), (5S, 6S, 2S, 7S, 6S, 7S, 1S)

Sathapatya body format

(H6, H1, H2, H7, H2, H1, H6, H8, H1), (H5, H6, H2, H7, H6, H7, H1)

External characteristics

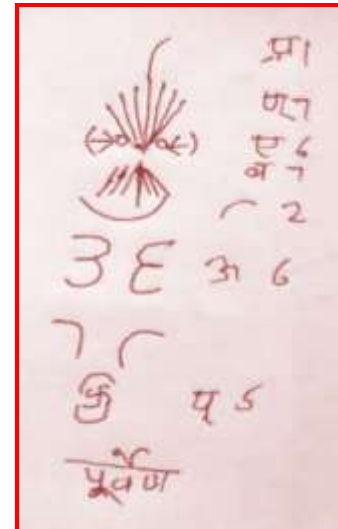
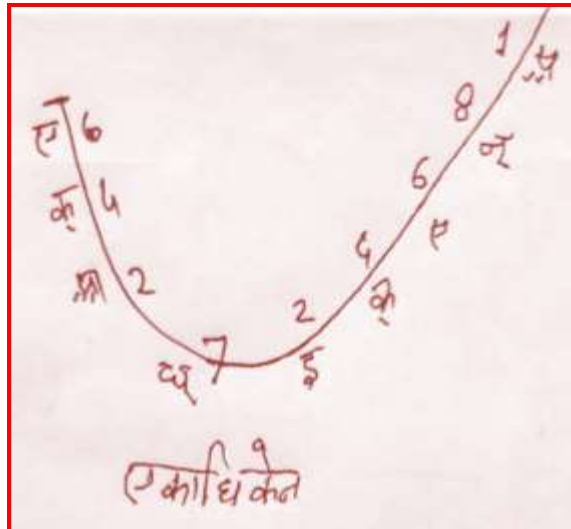
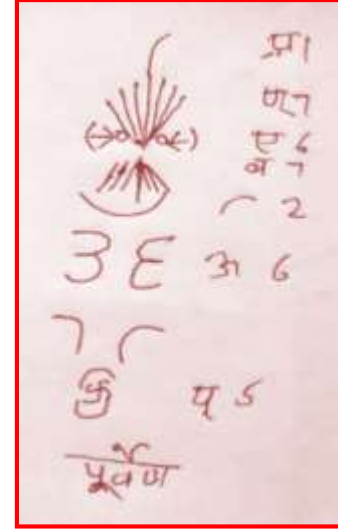
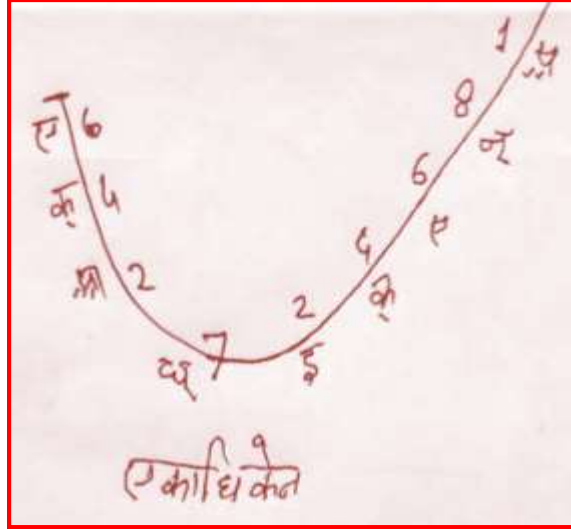
(12, 2, 4, 14, 4, 2, 12, 16, 2), (10, 12, 4, 14, 12, 14, 2)

Middle characteristics

(7, 2, 3, 8, 3, 5, 7, 9, 2), (6, 7, 3, 8, 7, 8, 2)

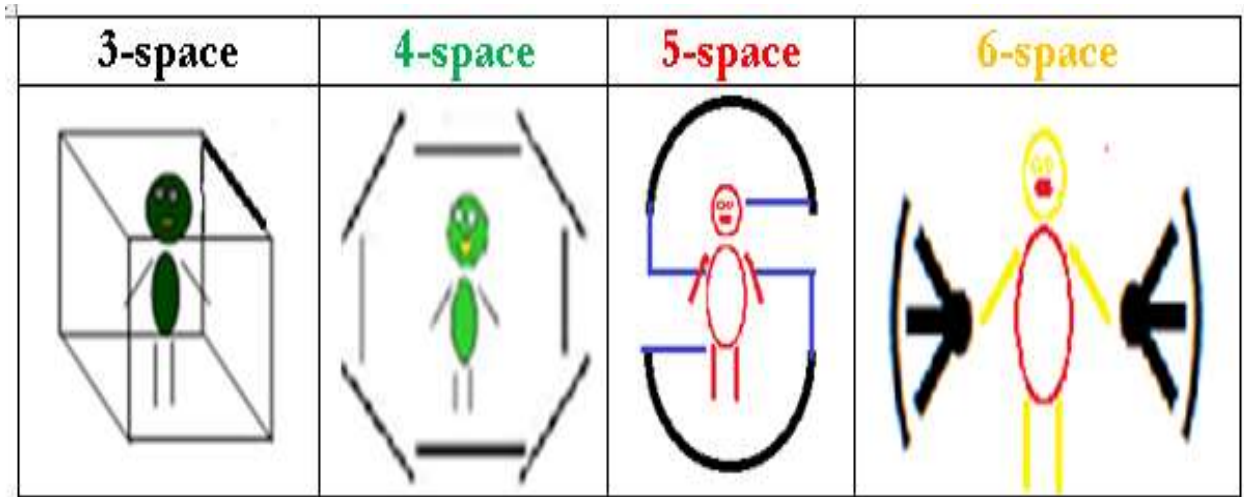
Internal characteristics

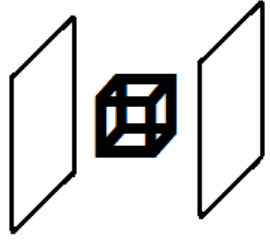
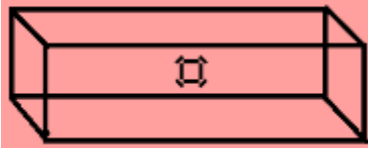
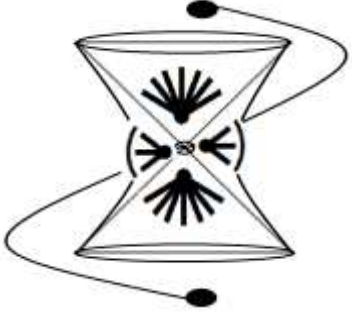
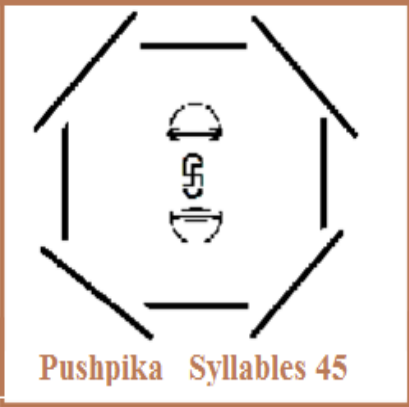
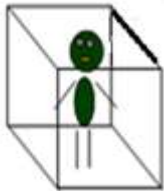

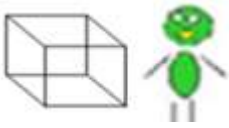










(22, 2, 6, 26, 2, 6, 22, 30, 2), (15, 22, 6, 26, 22, 26, 2)

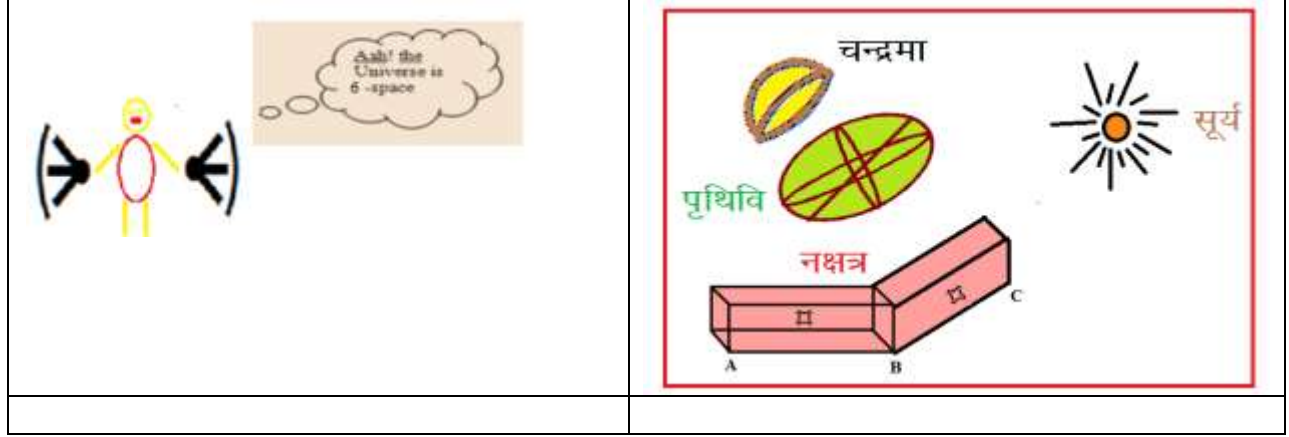


1. $(6, 4, 2) = 12 = (\text{ऋषि})$
2. $(6, 4, 2, 7, 7) = 26 = (\text{देवता})$
3. $(7, 2, 4, 6) = 19 = (\text{छन्द})$
4. $(6, 8, 1) = 15 = (\text{स्वर})$
5. $(6 \times 4 \times 2) = 48 = 24 + 24 = (\text{मन्त्र}) + (\text{पुरुष})$

ए	ञ	ड	द	फ	ष
1	2	3	4	5	6
2	3	4	5	6	7
3	4	5	6	7	8
4	5	6	7	8	9
5	6	7	8	9	10
6					



	<p>Home of Lord Brahma and Vidhyadhari within Shila (शिला) / slab</p> 
	 <p>Pushpika Syllables 45</p>
 	 
 	  
 	 



श्री ऊँ

। ि ि ७ ९ ८ ै ो ौ

भगवान्

बाहिं मध्य आंतरिक

(चतुष्पीठ) सालोक्य सामीप्य सारुप्य सायुज्य

(आयाम (dimension), आवरण (boundary), सोपान (domain) केन्द्र (origin), आधार (base))

स्वर व्यजन वर्गा अन्तःस्थ उष्मण यम

Devnagri Alphabet with placement value

देवनागरी वर्णमाला

Nine vowels

अ इ उ ऋ लृ ए ओ ऐ औ

1 2 3 4 5 6 7 8 9

5 x 5 Varga consonants

क ख ग घ ङ 1 2 3 4 5

च छ ज झ ञ 2 3 4 5 6
 ट ठ ड ढ ण 3 4 5 6 7
 त थ द ध न 4 5 6 7 8
 प फ ब भ म 5 6 7 8 9


Anthsthaletters:

य र ल व
 1 3 5 7

Ushmana letters:

श स ष ह
 2 3 6 9

Yamaletters



 9 10 11 12 13 14 15 16
