

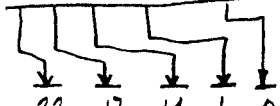
5-cap, Comma/Skhisma Sieve (Using L.A. Hansons HP32SII Program for ETJ1)

dated 29 Jan 95

©1995 by Erv Wilson

Sheet 1 of 6

4 5 6 81 32805  
3 4 5 80 32768



TOL  
.075

MOS	DIF	N	Values
	53	53	22, 17, 14, 1, 0
	53	559	232, 180, 147, 10, 1
	53	612	254, 197, 161, 11, 1 -
MOS	506	665	276, 214, 175, 12, 1
	53	1171	486, 377, 308, 21, 2
	65	1224	508, 394, 322, 22, 2 -
	65	1289	535, 415, 339, 23, 2
494	53	1783	740, 574, 469, 32, 3
	53	1836	762, 591, 483, 33, 3
	12	1848	767, 595, 486, 33, 3
	53	1901	789, 612, 500, 34, 3
494	65	2395	994, 771, 630, 43, 4
	53	2460	1021, 792, 647, 44, 4 -
	53	2513	1043, 809, 661, 45, 4
494	65	3007	1248, 968, 791, 54, 5
	53	3072	1275, 989, 808, 55, 5 -
	53	3125	1297, 1006, 822, 56, 5
506	53	3631	1507, 1169, 955, 65, 6
	53	3684	1529, 1186, 969, 66, 6 -
	53	3737	1551, 1203, 983, 67, 6
506	53	4243	1761, 1366, 1116, 76, 7
MOS	53	4296	1783, 1383, 1130, 77, 7
	53	4349	1805, 1400, 1144, 78, 7
506	53	4855	2015, 1563, 1277, 87, 8
	53	4908	2037, 1580, 1291, 88, 8
559	53	5467	2269, 1760, 1438, 98, 9
	53	5520	2291, 1777, 1452, 99, 9
65	53	5585	2318, 1798, 1469, 100, 9
494	53	6079	2523, 1957, 1599, 109, 10
	53	6132	2545, 1974, 1613, 110, 10
	12	6144	2550, 1978, 1616, 110, 10
	53	6197	2572, 1995, 1630, 111, 10
494			

SK ÷ 8

DIF	N	Values	TOL
.058	65	6691 2777, 2154, 1760, 120, 11	.075
.048	53	6756 2804, 2175, 1777, 121, 11 -	.075
.019	53	6809 2826, 2192, 1791, 122, 11	.075
.073	559	7368 3058, 2372, 1938, 132, 12 -	.075
.043	53	7421 3080, 2389, 1952, 133, 12	.075
.039	506	7927 3290, 2552, 2085, 142, 13	.075
.069	53	7980 3312, 2569, 2099, 143, 13 -	.075
.048	53	8033 3334, 2586, 2113, 144, 13	.075
.059	506	8539 3544, 2749, 2246, 153, 14	.075
.074	53	8592 3566, 2766, 2260, 154, 14 -	.075
.054	53	8645 3588, 2783, 2274, 155, 14	.075
.059	506	9151 3798, 2946, 2407, 164, 15	.075
.055	53	9204 3820, 2963, 2421, 165, 15 -	.075
.044	559	9763 4052, 3143, 2569, 175, 16	.075
.074	53	9816 4074, 3160, 2582, 176, 16 -	.075
.035	65	9881 4101, 3187, 2599, 177, 16	.075
.041	494	10375 4306, 3340, 2729, 186, 17	.075
.071	53	10428 4328, 3357, 2743, 187, 17 -	.075
.015	12	10440 4332, 3360, 2746, 187, 17 -	.075
.047	53	10493 4355, 3378, 2760, 188, 17	.075
.057	494	10987 4560, 3537, 2890, 197, 18	.075
.0043	65	11052 4587, 3558, 2907, 198, 18 -	.075
.060	53	11105 4609, 3575, 2921, 199, 18	.075
.048	559	11664 4841, 3755, 3068, 209, 19 -	.075
.024	53	11717 4863, 3772, 3082, 210, 19	.075
.046	506	12223 5073, 3935, 3215, 219, 20	.075
.043	53	12276 5095, 3952, 3229, 220, 20 -	.075
.064	53	12329 5117, 3969, 3242, 221, 20	.075
.052	506	12835 5327, 4132, 3376, 230, 21	.075
.063	53	12888 5349, 4149, 3390, 231, 21	.075
.070	53	12941 5371, 4166, 3403, 232, 21	.075
.050	506	13447 5581, 4329, 3537, 241, 22	.075
	53	13500 5603, 4346, 3551, 242, 22	.075
	65		.075

←

MOS

494	13565	5630, 4367, 3568	243 22	.071	53	20815		.062
53	14059			.052	53	<u>20868</u>	8661, 6718, 5489, 374, 34	.011
65	14112	5857, 4543, 3712, 253, 23 -		.052	506	20921		.051
494	14177			.055	53	21427		.058
53	14671			.060	53	21480	8915, 6915, 5650, 385, 35 <sup>Ⓢ</sup>	.024 5x4296
12	14724	6111, 4740, 3873, 264, 24		.072	53	21533		.068
53	14736	6116, 4744, 3876, 264, 24		.062	506	22039		.055
494	14789			.041	53	22092	9169, 7112, 5811, 396, 36	.042
155	15283			.073	65	22157		.061
53	15348	6370, 4941, 4037, 275, 25		.043	494	22651		.059
559	15401	6392, 4958, 4051, 276, 25		.034	53	22704	9423, 7309, 5972, 407, 37	.061
53	15960	6624, 5138, 4198, 286, 26 -		.024	12	22716	9428, 7313, 5975, 407, 37	.074
506	16013	6646, 5155, 4212, 287, 26		.038	53	22769		.045
53	16519			.067	53	22822		.074
53	<u>16572</u>	6878, 5335, 4359, 297, 27		.009	441	23263		.069
506	16625			.050	65	23328	9682, 7510, 6136, 418, 38	.055 11644 x 2
53	17131			.057	53	23381		.033
53	17184	7132, 5532, 4520, 308, 28		.019	559	23940	9936, 7707, 6297, 429, 39	.036
506	17237			.066	53	23993		.030
53	17743			.053	53	24552	10190, 7904, 6458, 440, 40 <sup>Ⓢ</sup>	.019 12276 x 2
65	17796	7336, 5729, 4681, 319, 29		.037		24605		.039
559	17861			.066		25111		.066
53	18355			.055		<u>25164</u>	10444, 8101, 6619, 451, 41	.014
65	18408	7640, 5926, 4842, 330, 30		.057		25217		.053
494	18473			.050		25723		.059
65	18967	19020		.064		25776	10698, 8298, 6780, 462, 42	.028 12888 x 2
53	19032	7899, 6127, 5006, 341, 31		.059		25829		.071
559	19085			.037		26335		.058
53	19644	8153, 6324, 5167, 352, 32		.039		26388	10952, 8495, 6941, 473, 43	.047
559	19697			.032		26453		.057
53	20256	8405		.021		26506		.072
506	20309			.038		26947		.063
						27000	11206, 8692, 7102, 484, 44	.066 13500 x 2

÷8 SK  
→

400

624

÷8 SK

SK ÷ 8

• 27000	11200, 8692, 7102, 484, 44	.066	• <u>33144</u>	13756, 10670, 8718, 594, 54	.019	16570 x 2
• 27012	11211, 8696, 7105, 484, 44	.071	33197		.042	
27065		.040	33703		.067	
27118		.072	• 33756	14010, 10867, 8879, 605, 55	.023	
27559		.073	33809		.059	
• 27624	11465, 8893, 7266, 495, 45	.052	34315		.062	
27677		.029	• 34368	14264, 11064, 9040, 616, 56	.038	17184 x 2
• 28236	11719, 9090, 7427, 506, 46	.033	34433		.065	
28289		.029	34486		.070	
• 28848	11973, 9287, 7588, 517, 47	.018	34927		.064	
28901		.040	• 34980	14518, 11261, 9201, 627, 57	.056	
29407		.066	35045		.047	
• <u>29460</u>	12227, 9484, 7749, 528, 48	.018	35098		.067	
29513		.056	35539		.071	
30019		.060	• 35604	14777, 11462, 9365, 638, 58	.064	
• 30072	12481, 9681, 7910, 539, 49	.033	35657		.031	
30125		.074	35710		.069	
30137		.070	• 36216	15031, 11659, 9526, 649, 59	.045	
30190		.074	36269		.023	
30631		.061	• 36828	15285, 11856, 9687, 660, 60	.029	
• 30684	12735, 9878, 8071, 550, 50	.052	36881		.029	
30749		.052	• <u>37440</u>	15539, 12053, 9848, 671, 61	.020	
30802		.069	37493		.044	
31243		.067	37999		.068	
• 31296	12989, 10075, 8232, 561, 51	.071	• 38052	15793, 12250, 10009, 682, 62	.027	
• 31308	12994, 10079, 8235, 561, 51	.067	38105		.062	
31361		.036	38170		.074	
31414		.070	38611		.064	
• 31920	13248, 10276, 8396, 572, 52	.048	• 38664	16047, 12447, 10170, 693, 63	.043	
31973		.026	38729		.060	
• 32532	13502, 10473, 8557, 583, 53	.031	38782		.067	
32585		.028	39223		.067	
			• 39276	16301, 12644, 10331, 704, 64	.061	

• 39276 16301, 12644, 10331, 704, 64	.061	• <u>46032</u> 19105, 14819, 12108, 825, 75	.026 ←
39341	.042	46085	.049
39394	.064	46591	.070
• 39900 16560, 12845, 10495, 715, 65	.061	• 46644 19359, 15016, 12269, 836, 76	.036 ←
39953	.027	46697	.068
40006	.068	46709	.070
• 40512 16814, 13042, 10656, 726, 66	.043	46762	.066
40565	.021	47203	.069
• 41124 17068, 13239, 10817, 737, 67	.028	• 47256 19613, 15213, 12425, 847, 77	.053
41177	.030	47321	.051
• <u>41736</u> 17322, 13436, 10978, 748, 68	.023	47374	.060
41789	.046	47815	.074
42295	.069	• 47868 198670, 15410, 12591, 858, 78	.071
• 42348 17576, 13633, 11139, 759, 69	.032	• 47880 19872, 15414, 12594, 855, 78	.073
42401	.065	47933	.032
42413	.074	47986	.061
42466	.070	• 48492 20126, 15611, 12755, 869, 79	.055
42907	.067	48545	.018
• 42960 17830, 13830, 11300, 770, 70	.048	48598	.067
43025	.055	• 49104 20380, 15801, 12916, 880, 80	.039 <sup>12276</sup> <sub>x4</sub>
43078	.063	49157	.019
43519	.070	• <u>49716</u> 20634, 16005, 13077, 891, 81	.028
• 43572 18084, 14027, 11461, 781, 71	.066	49769	.034
43637	.037	• 50328 20888, 16202, 13238, 902, 82	.029
43690	.062	50381	.053
• 44196 18343, 14228, 11625, 792, 72	.058	50446	.073
44249	.022	50887	.072
44302	.067	• 50940 21142, 16399, 13399, 913, 83	.041
• 44808 18597, 14425, 11786, 803, 73	.041	50993	.072
44861	.019	51005	.065
• 45420 18851, 14622, 11947, 814, 74	.028	51058	.063
45473	.032	51499	.072
		• 51552 21396, 16596, 13560, 924, 84	.057

51617	.046	•58920 24454, 18968, 15498, 1056, 96	.037
51670	.058	58973	.060
•52176 21655, 16797, 13724, 935, 85	.070	59038	.064
52229	.028	•59532 24708, 19165, 15659, 1067, 97	.051
52282	.059	59597	.056
•52788 21909, 16994, 13885, 946, 86	.053	59650	.055
52841 21931, 17011, 13899, 947, 86	.014	•60144 24962, 19362, 15820, 1078, 98	.067
52894	.067	60209	.036
•53400 22163, 17191, 14046, 957, 87	.038	60262	.053
53453	.020	•60768 25221, 19563, 15984, 1089, 99	.065
•54012 22417, 17388, 14207, 968, 88	.030	60821	.018
54065	.037	60874	.058
•54624 22671, 17585, 14368, 979, 89	.033	•61380 25475, 19760, 16145, 1100, 100	.049
54677	.056	61433	.010 ←
54742	.063	61486	.068
55183	.074	•61992 25729, 19957, 16306, 1111, 101	.037
•55236 22925, 17782, 14529, 990, 90	.046	62045	.025
55301	.060	•62604 25983, 20154, 16467, 1122, 102	.034
55354	.059	62657	.044
•55848 23179, 17979, 14690, 1001, 91	.062	62722	.072
55913	.041	•63216 26237, 20351, 16628, 1133, 103	.042
55966	.055	63269	.063
•56472 23438, 18180, 14854, 1012, 92	.067	63281	.071
56525	.023	63334	.060
56578	.058	•63828 26491, 20548, 16789, 1144, 104	.055
•57084 23692, 18376, 15015, 1023, 93	.051	63893	.051
→ 57137 23714, 18394, 15027, 1024, 93	.011	63946	.052
57190	.067	•64440 26745, 20745, 16950, 1155, 105	.072
•57696 23946, 18574, 15176, 1034, 94	.037	64505	.032
57749	.022	64558	.051
•58308 24200, 18771, 15337, 1045, 95	.032	•65064 27004, 20946, 17114, 1166, 106	.062
58361	.040	65117	.013

Finished Feb 28, 1995

65170	.057	11926	.051
•65676 27258, 21143, 17275, 1177, 107	.048	•72420 30057, 23314, 19049, 1298, 118	.065
65729	.010	72485	.042
65782	.069	72538	.046
•66288 27512, 21340, 17436, 1188, 108	.038	•73044 30316, 23515, 19213, 1309, 119	.074
66341	.028	73097	.023
•66900 27766, 21537, 17597, 1199, 109	.037	73150	.049
66953	.048	•73656 30570, 23712, 19374, 1320, 120	.059
67018	.068	73709 30392, 23729, 19388, 1321, 120	.0040 ←
•67512 28020, 21734, 17758, 1210, 110	.046	73762	.058
[ 67565	.067	•74268 30824, 23909, 19535, 1331, 121	.047
67577	.067	74321	.016
67630	.056	74374	.072
•68124 28274, 21931, 17919, 1221, 111	.060	•74880 31078, 24106, 19696, 1342, 122	.041
68189	.047	74933	.036
68242	.049	74998	.073
(•68748,) •68736 28528, 22128, 18080, 1232, 112	(.077)	•75492 31332, 24303, 19857, 1353, 123	.044
68801	.027	75545	.056
68854	.050	75610	.058
•69360 28787, 22329, 18244, 1243, 113	.060	•76104 31586, 24500, 20018, 1364, 124	.055
69413	.008	76169	.058
69466	.058	76222	.048
•69972 29021, 22526, 18405, 1254, 114	.047	•76716 31840, 24697, 20179, 1375, 125	.070
70025	.013	76781	.038
70078	.070	76834	.044
•70584 29295, 22723, 18566, 1265, 115	.039	•77340 22099, 24898, 20343, 1386, 126	.072
70637	.032	77393	.018
•71196 29549, 22920, 18727, 1276, 116	.041	77446	.048
71249	.052	•77952 32353, 25095, 20504, 1397, 127	.058
71314	.063	78005 32375, 25112, 20518, 1398, 127	.000993
•71808 29803, 23117, 18888, 1287, 117	.050	78058	.059
71861	.071	•78564 32607, 25292, 20665, 1408, 128	.047
71873	.062		

A B C D E F G H I J K L M N O P Q  
 $\frac{7}{6}$   $\frac{8}{7}$   $\frac{9}{8}$   $\frac{10}{9}$   $\frac{11}{10}$   $\frac{12}{11}$   $\frac{8}{6}$   $\frac{9}{7}$   $\frac{10}{8}$   $\frac{11}{9}$   $\frac{12}{10}$   $\frac{14}{11}$   $\frac{10}{7}$   $\frac{11}{8}$   $(\frac{12}{9})$   $\frac{81}{80}$   $\frac{32805}{32768}$   
 - - x x = = x = =  
 cap .125 x =

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$\phi = \frac{1283}{1848}$

$2^3 \cdot 3 \cdot 7 \cdot 11$

224	<u>612</u>	254/358, 197, 11, 1	$\phi - .097$	41	10,387	$\phi - .113$
270	836	347/489, 269, 15, 7	-- .122	494	10,428	-- .078
130	1106	459/647, 356, 20, 2	-- .120	742	10,922	-- .124
612	1236	513/723, 398, 22, 2	$\phi - .103$	612	11,664	- (13) .101
494	<u>1848</u>	767/1081, 595, 33, 3	$\phi - .058$	494	<u>12,276</u>	5095/7181, 3952, 220, 20
118	2342	972/1370, 754, 42, 4	$\phi - .097$	72	12,770	-- .079
224	2460		- (13) .122	46	12,842	- (13) .117
270	2684		- (13) .123	224	12,888	-- .119
742	2954		- (13) .119	270	13,112	$\phi - .100$
41	3696		$\phi - .117$	270	13,382	-- .105
453	3737	1551/2186, 1203, 67, 6	-- .086	72	13,382	-- .114
41	4190		-- .118	58	13,454	-- .107
118	4231		-- .111	612	13,512	-- .107
118	4349		-- .098	152	14,124	- (13) .078
494	4843		-- .089	152	14,276	$\phi! - .118$ $99 \frac{11}{14276}$
670	4843		-- .089	342	14,618	(13) .062
72	5513		-- .121	72	14,690	- .116
494	5585	2318/3267, 1798, 100, 9	- (13) .076	198	14,690	- .116
118	6079		- (13) .071	72	14,888	- .118
152	6197		-- .101	72	14,960	- .101
72	6349		- (13) .115	270	15,230	- .104
270	6421		-- .124	72	15,302	- .121
72	6691	2777/3914, 2154, 120, 11	-- .052	152	15,302	- .121
670	6763		- (13) .111	1012	15,454	- .107
94	7433		-- .105	1012	15,454	- .107
400	7527		-- .124	41	16,466	.092
270	7927		-- .067	41	16,466	.092
342	8197		-- .116	612	16,507	.113
224	8539		- (13) .066	612	16,507	.113
270	8763		- (13) .120	183	17,119	.102
342	9033		$\phi$ (13) .121	183	17,119	.102
400	9375		-- .118	559	17,302	.113
612	9775		-- .104	559	17,302	.113
				494	17,861	.120
				494	17,861	.120
				270	18,355	.074
				270	18,355	.074
				342	18,625	.117
				342	18,625	.117
				72	18,967	.072
				72	18,967	.072
				152	19,039	.124
				152	19,039	.124
				270	19,191	.104
				270	19,191	.104
				72	19,461	.113
				72	19,461	.113

# Zig Zag Pattern of $\frac{7181}{12276}$

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.584962528511

$\frac{1}{N}$

0/1

$\frac{1}{1}$

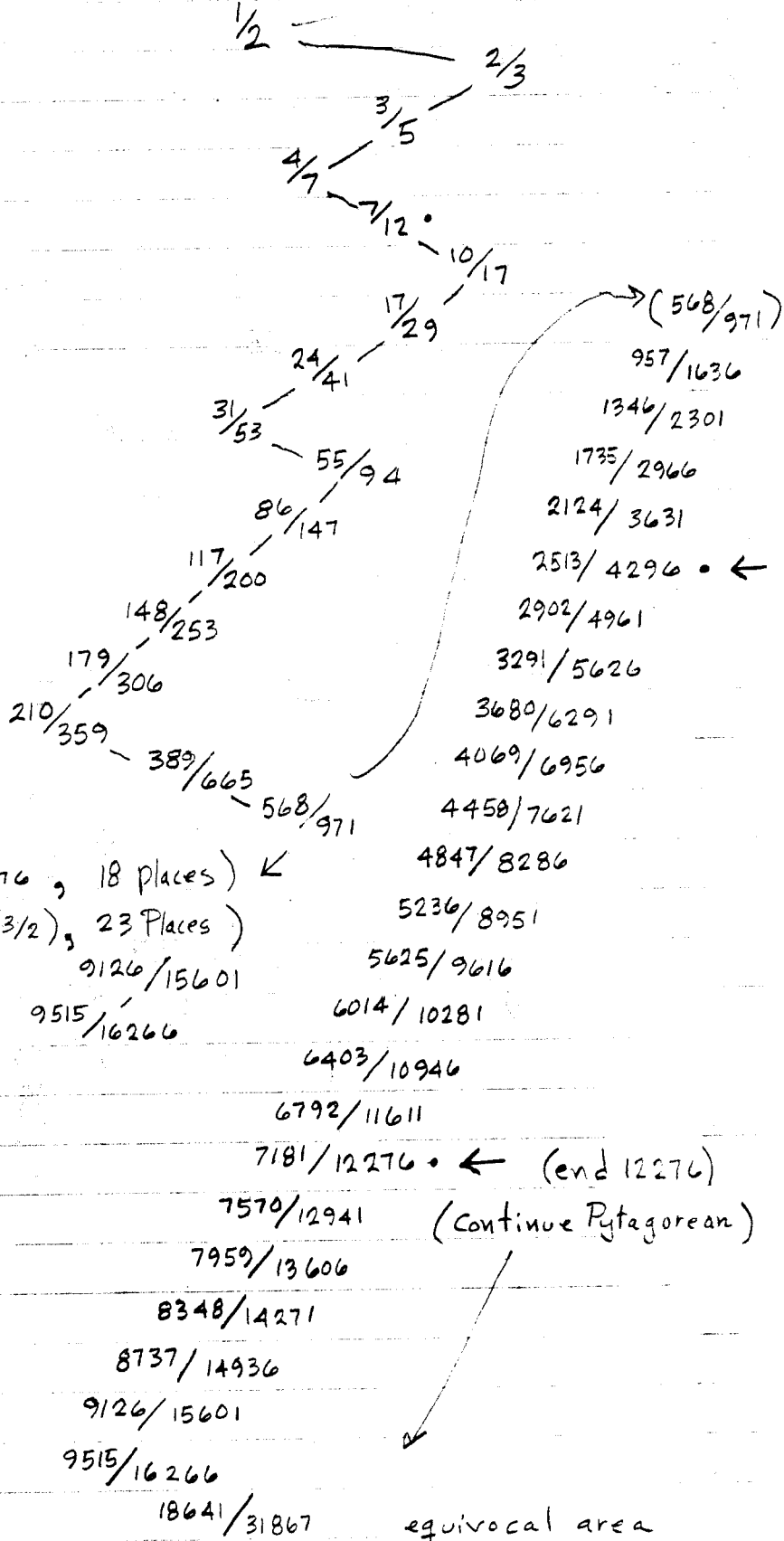
←	1	.709
→	1	.409
←	2	.442
→	2	.260
←	3	.845
→	1	.182
←	5	.486
→	2	.055
	<u>18</u>	.000

Compare w  $\frac{3}{2}$  Pythagorean

.584962500721

$\frac{1}{N}$

	1	.709
	1	.409
	2	.442
	2	.260
	3	.845
	1	.182
	5	.849
	2	.042
←	<u>23</u>	.416
	2	? .401
	2	? .493



( $\frac{7181}{12276}$ , 18 places) ←

( $\text{Log}_2(3/2)$ , 23 Places)

$\frac{9126}{15601}$

$\frac{9515}{16266}$



12,276 ( $2^2 \cdot 3^2 \cdot 11 \cdot 31$ )  
(Fits to Cap-11 rationals)  
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3/2	7,180.99965885
5/4	3,951.98929
7/4	9,911.08902
9/8	2,085.99932
11/8	5,639.98255
5/3	9,046.98963
7/6	2,730.08936
9/6 (3/2)	
11/6	10,734.98289
7/5	5,959.09973
9/5	10,410.01002
11/10	1,687.99326
9/7	4,450.91029
11/7	8,004.89353
11/9	3,553.98323

# 12,276 Fact Sheet

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Comma of Pythagoras ( $C_p$ ),  $12,276 \times .0195500086532 = 239.995906227$

$\frac{1}{3} C_p$ ,  $12,276 \times .578445831170 = 7,101.00102344$

$\frac{1}{4} C_p$ ,  $12,276 \times .580074999558 = 7,121.00068230$

$\frac{1}{5} C_p$ ,  $12,276 \times .581052498990 = 7,133.00047760$

$\frac{1}{6} C_p$ ,  $12,276 \times .581704165945 = 7,141.00034114$

$\frac{1}{8} C_p$ ,  $12,276 \times .582518749639 = 7,151.00017057$

$\frac{1}{10} C_p$ ,  $12,276 \times .583007499856 = 7,157.00006823$

$\frac{1}{12} C_p$ ,  $12,276 \times .583333333333 = 7,161.00000000$  exactly

Comma of Didymos ( $C_d$ ),  $12,276 \times .017921907997 = 220.009342575$

$\frac{1}{4} C_d$ ,  $12,276 \times .580482023722 = 7,125.99732321$

$\frac{1}{5} C_d$ ,  $12,276 \times .581378119122 = 7,136.99779034$

$\frac{1}{10} C_d$ ,  $12,276 \times .583170309921 = 7,158.99872459$

$\frac{1}{11} C_d$ ,  $12,276 \times .583333236358 = 7,160.99880953$

$\frac{25}{36}$  ET  $12,276 \times .694444444444 = 8,525$  exactly

$\frac{5}{9}$  ET  $12,276 \times .555555555555 = 6,820$  exactly

$\frac{7}{12}$  ET  $12,276 \times .583333333333 = 7,161$  exactly

$\frac{13}{22}$  ET  $12,276 \times .590909090909 = 7,254$  exactly

$\frac{18}{31}$  ET  $12,276 \times .580645161290 = 7,128$  exactly

$(\frac{3}{2})$  Pythagorean  $12,276 \times .584962500721 = 7,180.99965885$

$\frac{1}{4}$  Skhisma,  $12,276 \times .584555475557 = 7176.00301794$

$\frac{1}{5}$  Skhisma,  $12,276 \times .584636880590 = 7177.00234612$

$\frac{1}{10}$  Skhisma,  $12,276 \times .584799690655 = 7179.00100248$

Skhisma,  $12,276 \times .0016281006557 = 19.9865636495$

Recurrent sequence  $J_n = 3(J_{n-4} + J_{n-5})$ ,  $\rightarrow 1.49577134782$

$12,276 \times .580889653448 = 7131.00138573$  (Pure coincidence)

Also, see sheet 12,276 Fits to Cap-11 Rationals

Golden Section,  $12,276 \times .618033988750 = 7586.98524590$

(but bad  $\phi$ ,  $12,276 \times .694241913631 = 8522.51373173$ ) See 24,552.