

Pyramid: Rules

How to solve

- Multiplication and Division: Solve the problems from top to bottom. Each problem has one more digit than the one before.
- Sums: Start with the column on the left. Write its answer in the top box of the column to its right (1)–(6), and include it when you add up that column. Write the answer to the last column in "Answer (7)".

Playing the game

1. Form groups of 2 to 6 players, and give each player one Lv. 1 set.
2. Set a time limit (3 minutes is recommended), and everyone starts at the same time.
3. When time is up, check the answers and count how many are correct.
4. The player with the most correct answers moves up one Lv. in the next round. Everyone else plays the same Lv. again.
5. Play several rounds. The player at the highest Lv. at the end wins.

Variations

- Compare how many problems each player gets right in a row, starting from the first one. This builds accuracy.
- Score 2 points for each problem solved by mental calculation and 1 point for each solved on the abacus. This makes it mental calculation practice.

Soroban Technology Lab

Pyramid Lv. 7

Lv. 7-1

				(5)	(6)
				(4)	(5)
				(3)	(4)
				(2)	(3)
				(1)	(2)
2	15	250	3,740	97,258	-820,697
1	23	786	6,845	60,431	326,149
7	76	964	8,614	72,531	274,985
4	24	549	1,968	36,042	937,586
7	58	218	6,297	40,658	367,019
4	50	802	2,570	56,024	-862,354
9	61	359	5,397	94,827	659,230
5	74	571	4,032	43,965	302,518
2	92	482	6,029	23,756	-170,635
6	93	903	2,108	18,095	-785,024
1	90	604	2,476	86,971	-901,567
6	89	376	3,671	61,598	-564,371
8	31	168	2,139	75,134	-398,761
9	63	736	4,712	73,209	196,783
2	80	839	1,957	82,417	684,253
Answer (7)					

Pyramid Lv. 7

Lv. 7-2

				(5)	(6)
				(4)	(5)
				(3)	(4)
				(2)	(3)
				(1)	(2)
9	21	438	1,524	73,820	612,789
6	39	219	9,805	15,478	-203,654
4	67	740	8,146	58,160	187,342
7	50	382	3,607	61,024	-406,781
3	58	146	7,326	37,981	325,498
4	75	654	3,412	96,083	967,821
5	46	510	6,081	24,790	-873,240
3	19	539	6,732	19,042	-941,206
6	12	783	5,149	78,401	-146,759
8	42	426	5,368	89,751	-129,573
2	96	398	4,952	83,624	768,305
9	94	107	9,720	39,462	387,640
2	83	469	1,450	29,357	492,650
1	80	809	2,835	75,634	593,817
7	34	261	4,107	60,815	715,068
Answer (7)					

Pyramid Lv. 7

Lv. 7-3

				(5)	(6)
				(4)	(5)
				(3)	(4)
				(2)	(3)
				(1)	(2)
7	69	594	8,057	92,468	765,492
6	52	810	9,065	47,520	-539,604
9	74	832	6,423	18,926	125,837
6	87	987	9,347	94,731	370,549
7	39	291	8,635	57,803	-178,396
5	18	437	7,012	39,125	-691,784
9	70	648	2,594	81,052	-836,129
1	34	750	6,214	63,507	846,072
7	53	376	3,720	98,657	602,754
9	62	904	7,431	10,279	890,413
6	25	541	9,362	95,248	974,238
2	20	260	8,603	58,461	-509,671
8	91	589	4,507	56,140	793,185
5	41	803	2,368	79,305	-934,806
4	80	963	5,078	46,597	480,125
Answer (7)					

Pyramid Lv. 7

Lv. 7-4

				(5)	(6)
				(4)	(5)
				(3)	(4)
				(2)	(3)
				(1)	(2)
9	16	415	4,572	57,490	-102,749
1	48	938	3,845	43,157	246,357
7	47	602	8,627	68,271	410,659
2	91	657	6,319	60,542	-265,913
7	59	486	3,740	76,389	572,198
4	80	129	8,254	61,803	618,502
1	36	327	5,409	29,830	859,032
4	32	831	1,480	14,358	-719,304
8	25	970	3,908	29,705	-367,240
3	94	194	2,183	27,614	-682,905
7	60	867	1,798	98,476	-307,195
4	83	704	7,412	56,120	-940,716
3	28	712	1,786	40,281	823,015
6	73	659	3,946	51,639	742,891
8	15	495	1,023	80,563	109,863
Answer (7)					

Answers Pyramid

Pyramid Lv. 7

	Lv. 7-1	Lv. 7-2	Lv. 7-3	Lv. 7-4
(1)	73	76	91	74
(2)	992	892	906	861
(3)	9,916	8,445	11,416	10,077
(4)	78,563	98,733	120,875	83,219
(5)	1,215,079	1,074,707	1,237,583	1,064,248
(6)	1,107,096	3,148,173	3,425,938	3,411,109
(7)	16,009,651	10,569,273	11,118,234	10,455,757