

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

				(4)	(5)	(6)
				(3)	(4)	(5)
				(2)	(3)	(4)
				(1)	(2)	(3)
6	63	965	2,854	26,719	-753,918	-6,810,257
7	84	139	2,917	50,397	-216,350	7,231,649
9	10	852	5,178	34,082	370,142	-4,530,978
3	52	702	7,043	83,629	436,879	-2,054,896
4	79	837	5,239	81,495	-987,301	-1,526,807
3	86	403	6,405	51,687	-597,182	5,793,081
7	91	174	7,296	17,453	219,458	-4,768,913
3	38	261	9,417	67,842	263,504	4,918,625
1	27	547	6,940	45,270	198,740	4,362,578
7	25	608	1,478	41,096	-804,963	-4,987,502
2	71	968	9,782	80,532	310,624	5,496,703
9	90	346	3,506	98,561	-756,231	4,351,089
4	54	490	1,283	49,075	-198,075	7,648,052
8	32	587	1,098	13,648	305,196	2,179,680
1	67	819	1,569	79,483	827,435	-6,504,137
Answer (7)						

Pyramid Lv. 7

Lv. 7-2

				(4)	(5)	(6)
				(3)	(4)	(5)
				(2)	(3)	(4)
				(1)	(2)	(3)
4	58	709	5,218	61,470	267,854	-6,329,480
3	26	763	2,347	26,180	635,921	-1,076,845
6	71	614	9,462	85,947	-912,785	-8,537,964
9	62	153	1,283	70,128	795,340	-2,604,318
1	53	395	8,019	51,398	102,647	4,765,019
3	84	840	8,476	73,281	-237,096	5,902,674
8	30	238	9,407	93,685	760,483	2,369,840
5	97	120	7,365	57,039	819,063	-7,910,863
6	13	975	4,053	42,136	948,615	-1,278,659
7	42	102	8,120	36,597	-380,596	-3,846,052
8	90	560	2,580	23,759	-451,206	9,107,423
9	68	821	4,573	49,802	-273,801	-3,596,178
5	91	457	7,160	84,065	621,435	4,195,276
3	59	294	4,795	61,790	-274,153	1,028,796
5	41	957	3,692	46,723	142,589	9,624,503
Answer (7)						

Pyramid Lv. 7

Lv. 7-3

				(4)	(5)	(6)
				(3)	(4)	(5)
				(2)	(3)	(4)
				(1)	(2)	(3)
3	91	859	8,360	51,260	927,140	-7,896,135
8	70	271	9,548	83,906	603,915	-3,258,014
9	48	680	7,193	98,513	-581,026	8,657,493
7	65	396	9,052	14,795	794,680	9,832,504
3	46	752	6,720	39,284	123,478	-9,264,178
9	24	437	1,826	29,670	-967,538	-5,076,243
3	10	160	4,682	36,054	-496,705	-2,735,901
9	37	107	7,354	95,482	678,254	-4,380,296
6	12	324	5,341	80,437	-231,098	4,389,026
5	29	148	7,089	81,670	-147,309	5,968,721
6	43	483	2,195	72,149	-153,264	2,083,647
8	85	569	6,425	46,837	-392,870	-6,419,325
4	39	905	5,917	54,028	-453,927	1,504,387
5	53	716	4,978	69,825	381,492	2,538,170
1	86	295	4,786	40,765	647,521	9,740,238
Answer (7)						

Pyramid Lv. 7

Lv. 7-4

				(4)	(5)	(6)
				(3)	(4)	(5)
				(2)	(3)	(4)
				(1)	(2)	(3)
1	58	705	5,872	67,302	972,836	8,501,792
7	49	623	8,137	51,947	-765,940	-5,082,416
6	17	847	2,168	61,879	-159,328	2,634,871
1	92	986	4,507	75,201	154,603	1,970,438
5	63	132	9,406	45,813	-368,245	7,453,809
3	34	791	4,263	79,631	215,790	-5,327,480
5	90	864	3,059	83,942	326,078	7,835,640
2	75	934	5,391	28,561	-569,172	-3,146,987
1	20	320	2,189	52,098	153,497	-4,358,216
8	36	159	8,561	90,465	498,016	6,740,125
3	81	245	3,980	68,204	-983,154	-9,768,504
7	87	107	4,670	48,975	-270,539	3,914,258
2	68	478	7,415	78,403	183,205	-8,201,935
4	29	390	1,765	56,074	-506,931	-5,728,163
2	43	186	8,921	82,396	820,174	-1,039,476
Answer (7)						

Answers Pyramid

Pyramid Lv. 7

	Lv. 7-1	Lv. 7-2	Lv. 7-3	Lv. 7-4
(1)	74	82	86	57
(2)	943	967	824	899
(3)	10,255	9,213	8,850	9,184
(4)	94,250	110,590	108,093	102,165
(5)	1,071,514	1,069,030	1,160,223	1,205,221
(6)	1,546,566	3,385,679	4,549,169	2,949,416
(7)	18,661,953	20,840,489	21,711,986	12,273,610