

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. 5

Lv. 5-1

						(5)	(6)
						(4)	(3)
						(2)	(1)
1	96	782	8,932	20,176	-834,712	973,658	3,219,065
4	75	915	4,289	34,975	-402,853	921,064	-5,981,374
5	28	120	1,095	50,238	380,694	541,276	6,705,812
4	43	549	3,510	83,610	752,408	19,567	4,862,130
1	19	786	8,749	34,607	-342,195	62,918	9,803,745
5	87	804	9,874	95,427	870,159	-159,360	5,124,608
9	54	135	6,158	47,806	807,523	541,276	-4,261,793
1	31	504	2,056	97,054	314,089	4,289	2,198,370
5	82	973	7,513	92,048	-756,389	34,975	-9,658,723
6	90	278	7,032	56,314	-247,960	874,9	-1,576,983
9	20	946	1,948	21,795	706,941	95,427	-6,487,231
Answer (7)							

Pyramid Lv. 5

Lv. 5-2

						(5)	(6)
						(4)	(3)
						(2)	(1)
6	28	603	6,842	13,049	-304,569	7,235	8,905,746
2	63	249	9,541	67,482	-968,357	7,235	4,350,819
4	95	716	4,071	29,753	496,015	16,423	-3,572,601
2	54	735	4,607	97,054	126,738	48,395	5,426,978
4	41	784	8,156	29,516	-732,985	9,180	7,681,092
8	87	389	2,039	40,185	610,283	81,276	5,149,760
9	13	612	1,794	16,970	185,293	672,349	-4,637,581
6	79	407	2,613	61,708	-149,682	835,724	-7,392,814
7	42	961	5,492	50,318	752,691	496,015	5,149,760
5	60	950	8,265	84,936	257,038	126,738	9,258,163
2	16	620	4,369	49,607	-540,319	29,516	9,406,237
Answer (7)							

Pyramid Lv. 5

Lv. 5-3

						(5)	(6)
						(4)	(3)
						(2)	(1)
5	74	809	2,495	97,458	-254,138	539,180	3,710,695
6	85	483	1,843	67,305	-892,756	296,078	-4,382,071
2	20	326	7,689	46,820	703,429	80,916	-1,256,084
7	97	905	8,935	39,265	-389,602	24,153	-1,349,856
2	62	157	5,764	32,014	-260,573	49,206	2,978,613
6	18	240	9,270	48,107	-418,250	47,458	-1,024,765
8	41	597	3,127	67,489	756,314	67,305	9,431,705
2	50	379	8,416	51,078	718,930	46,820	8,479,350
8	63	164	3,019	70,921	987,164	39,265	9,607,842
5	28	247	2,954	72,359	324,506	32,014	-5,014,269
3	19	728	1,708	81,942	426,751	48,107	2,560,197
Answer (7)							

Pyramid Lv. 5

Lv. 5-4

						(5)	(6)
						(4)	(3)
						(2)	(1)
9	42	725	2,347	96,470	-435,810	46,731	7,214,659
7	58	390	8,903	46,059	-801,652	53,847	-7,026,483
8	91	106	4,816	89,251	326,049	58,921	-1,367,502
9	65	437	8,639	26,704	374,906	61,2475	9,867,510
8	34	691	5,014	70,598	120,985	52,98	9,678,023
7	81	318	1,207	93,215	597,416	58,921	5,083,741
4	29	974	9,257	20,136	-284,370	46,059	-5,107,234
7	83	852	3,561	80,362	650,748	89,251	4,836,195
1	10	189	9,126	19,487	-826,539	26,704	9,402,685
3	27	562	4,370	34,017	-905,271	70,598	-1,923,745
2	46	145	5,102	68,974	839,602	597,416	9,374,168
Answer (7)							

Answers Pyramid

Pyramid Lv. 5

	Lv. 5-1	Lv. 5-2	Lv. 5-3	Lv. 5-4
(1)	50	55	54	65
(2)	675	633	611	631
(3)	8,330	8,484	6,407	6,478
(4)	75,508	82,688	74,258	80,593
(5)	833,625	769,360	903,291	885,365
(6)	4,357,968	1,916,691	3,279,128	2,310,773
(7)	10,311,481	24,361,434	31,768,919	43,051,049