

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. 6

Lv. 6-1

			(1)	(2)	(3)	(4)	(5)	(6)
7	29	623	890	2,897	4,081	46,901	305,947	5,712,693
4	53	341	2,897	51,862	89,376	89,376	-573,162	1,079,485
1	75	956	7,604	20,563	4,985	72,183	-134,279	1,804,237
9	36	418	4,736	12,409	51,862	51,862	-289,750	-2,689,543
5	87	257	1,932	94,652	20,563	72,183	708,361	5,748,062
6	94	280	6,751	34,187	4,985	72,183	642,093	-5,927,314
3	90	973	8,120	12,697	4,736	12,409	658,092	9,467,850
1	32	139	9,807	47,059	1,932	94,652	-896,105	-9,305,182
2	15	675	8,065	53,810	3,425	83,245	827,510	6,172,389
8	64	204	7,839	74,820	6,751	34,187	-126,348	-5,943,621
6	58	546	9,123	70,213	8,120	12,697	-496,513	2,698,170
4	47	781	1,547	63,908	9,807	47,059	587,936	-4,806,132
6	10	145	1,056	28,074	8,065	53,810	-347,602	3,124,576
								8,502,769
								-1,058,347
								-6,348,295
Answer (7)								

Pyramid Lv. 6

Lv. 6-2

			(1)	(2)	(3)	(4)	(5)	(6)
7	89	970	863	6,275	2,906	18,940	857,902	5,904,716
5	34	508	970	3,714	74,256	74,256	795,243	1,623,958
3	17	219	3,714	90,875	69,513	69,513	-386,497	2,671,385
2	26	475	2,850	86,501	17,234	17,234	-346,158	-2,130,459
6	60	124	9,480	50,319	361,048	361,048	147,620	8,546,027
3	93	796	7,583	18,247	401,729	401,729	361,048	9,701,846
7	48	380	4,012	63,482	35,967	35,967	401,729	-5,074,163
4	62	432	5,091	94,603	86,501	86,501	412,735	-7,589,231
8	81	147	2,498	72,683	50,319	50,319	360,289	-1,438,692
2	15	524	3,694	56,034	18,247	18,247	304,516	-9,853,402
5	57	596	8,523	48,620	-807,691	-807,691	7,261,034	7,261,034
1	72	650	3,862	41,025	-678,059	-678,059	-2,897,640	-2,897,640
6	10	709	1,674	93,871	-495,170	-495,170	2,975,861	2,975,861
								5,061,839
								8,653,720
								-6,459,103
								-6,318,504
Answer (7)								

Pyramid Lv. 6

Lv. 6-3

			(1)	(2)	(3)	(4)	(5)	(6)
7	34	319	754	4,765	6,138	98,137	985,472	8,402,795
6	58	830	9,087	56,987	15,280	15,280	263,904	6,810,372
1	73	208	2,348	94,061	4,765	4,765	172,048	5,493,617
7	79	467	3,259	25,378	67,834	67,834	708,956	-8,031,426
3	26	642	6,857	75,693	2,910	2,910	-536,019	1,768,935
7	90	893	4,793	14,793	9,087	9,087	642,710	-6,751,094
4	81	421	1,580	31,892	2,348	2,348	-731,685	-7,609,248
8	67	539	5,041	36,074	3,259	3,259	-719,532	4,391,560
2	46	120	1,463	35,462	6,857	6,857	450,978	8,913,724
3	32	694	6,527	37,289	4,793	4,793	-524,816	-2,386,507
6	51	879	9,806	30,598	1,580	1,580	-123,698	1,504,673
4	94	654	7,204	70,468	5,041	5,041	193,724	4,310,759
8	45	163	3,795	82,670	1,463	1,463	-834,510	3,109,256
								-1,095,256
								-4,729,068
								2,897,053
								-2,095,187
								-1,748,936
Answer (7)								

Pyramid Lv. 6

Lv. 6-4

			(1)	(2)	(3)	(4)	(5)	(6)
7	84	802	489	1,674	6,250	92,401	487,923	8,157,329
6	63	357	802	3,820	16,745	16,745	-674,598	6,819,254
4	50	215	3,918	26,098	84,953	84,953	851,270	4,107,685
1	21	784	5,084	75,869	1,674	1,674	520,468	3,072,945
5	28	138	6,795	98,376	60,194	60,194	-947,063	-9,386,107
2	95	963	1,847	35,280	32,517	32,517	293,876	-6,824,501
9	48	246	1,093	38,254	26,098	26,098	-783,251	6,938,014
1	17	317	4,279	36,108	75,869	75,869	-702,341	-8,652,471
6	70	659	9,517	45,372	6,795	6,795	652,409	6,234,790
9	39	795	3,796	92,810	-306,952	-306,952	1,570,483	1,570,483
1	46	302	6,248	53,920	-198,543	-198,543	2,809,375	2,809,375
8	53	421	1,785	17,932	-105,697	-105,697	-8,750,236	-8,750,236
3	69	645	2,354	78,306	635,182	635,182	-4,165,890	-4,165,890
								3,417,982
								-2,490,856
								-1,085,627
								9,731,526
Answer (7)								

Answers Pyramid

Pyramid Lv. 6

	Lv. 6-1	Lv. 6-2	Lv. 6-3	Lv. 6-4
(1)	62	59	66	62
(2)	752	723	842	745
(3)	7,980	8,116	8,425	7,878
(4)	89,948	83,252	83,998	71,800
(5)	945,907	1,015,422	898,719	956,935
(6)	4,086,759	2,659,221	2,423,094	3,968,081
(7)	11,558,325	21,130,507	12,717,570	10,145,066