

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. 3

Lv. 3-1

							(6)
						(5)	
					(4)		
				(3)			
			(2)				
		(1)					
6	25	391	4,259	64,721	913,470	-4,261,758	2,615,390
9	69	415	6,798	30,592	546,130	-2,735,896	-2,837,064
3	73	970	8,519	96,427	190,764	8,549,312	-1,528,076
2	46	827	4,301	16,032	819,672	2,697,804	-1,084,639
6	13	503	5,673	61,704	145,928	8,763,210	7,314,598
4	47	564	3,502	68,950	874,659	7,951,643	-4,261,758
7	71	386	9,812	97,615	-328,547	3,147,508	-2,735,896
Answer (7)							

Pyramid Lv. 3

Lv. 3-2

							(6)
						(5)	
					(4)		
				(3)			
			(2)				
		(1)					
2	83	873	4,107	54,726	302,549	-2,340,657	7,819,640
9	15	560	2,859	94,012	-980,675	1,984,502	-3,192,085
7	29	619	9,032	17,026	-732,104	8,497,260	5,213,647
8	10	137	8,591	18,709	-175,903	7,012,396	-8,754,291
7	78	205	5,342	18,360	-864,397	5,341,608	3,461,859
1	39	390	8,412	73,654	829,560	-3,285,076	463,581
2	40	147	3,865	15,982	369,287	-6,287,913	395,012
Answer (7)							

Pyramid Lv. 3

Lv. 3-3

							(6)
						(5)	
					(4)		
				(3)			
			(2)				
		(1)					
3	84	617	6,940	60,479	934,165	5,780,391	5,370,894
9	95	260	8,107	39,257	-406,713	7,456,120	6,813,042
2	10	423	8,216	15,947	291,845	-5,941,632	-908,261
1	52	350	5,679	78,031	790,183	7,034,928	-2,967,410
3	43	931	8,743	85,426	637,529	1,529,076	-2,546,987
9	71	509	9,351	48,975	287,906	-6,185,923	8,021,576
7	26	897	9,207	91,730	-658,340	-6,194,387	8,021,576
Answer (7)							

Pyramid Lv. 3

Lv. 3-4

							(6)
						(5)	
					(4)		
				(3)			
			(2)				
		(1)					
1	36	501	7,831	23,605	-873,245	6,587,293	6,451,089
6	50	763	5,804	80,972	-138,520	-2,764,158	7,306,451
1	67	790	2,489	81,460	582,947	-1,645,703	-390,582
4	74	692	4,095	15,379	650,931	1,735,094	263,479
6	19	139	8,639	61,487	154,670	-7,524,986	52,014
5	80	485	2,017	98,306	-301,856	-8,901,645	67,253
3	92	816	6,512	72,503	609,178	4,673,821	219,706
Answer (7)							

Answers Pyramid

Pyramid Lv. 3

	Lv. 3-1	Lv. 3-2	Lv. 3-3	Lv. 3-4
(1)	37	36	34	26
(2)	38/	330	4/5	444
(3)	4,685	3,785	4,860	4,878
(4)	57,806	63,025	68,151	47,477
(5)	741,957	548,934	668,329	638,305
(6)	3,355,820	1,214,132	2,021,414	1,825,878
(7)	31,947,852	16,685,022	20,191,102	11,949,723