

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. 4

Lv. 4-1

						(6)
					(5)	
				(4)		
			(3)			
		(2)				
(1)						
9	92	184	2,784	98,547	347,826	5,748,201
5	24	761	6,208	71,623	-794,068	4,963,572
7	86	479	4,735	83,409	937,624	9,618,047
6	75	957	1,879	97,105	105,362	4,150,369
2	61	570	1,506	68,731	-731,529	-2,659,817
5	84	218	8,923	54,379	-516,482	9,374,658
3	47	394	8,946	35,860	-560,839	7,025,361
8	13	527	9,634	17,094	-823,641	-2,087,534
1	51	381	6,531	52,374	379,215	-9,506,143
Answer (7)						8,172,305

Pyramid Lv. 4

Lv. 4-2

						(6)
					(5)	
				(4)		
			(3)			
		(2)				
(1)						
8	94	875	7,649	80,932	596,347	9,756,032
1	29	190	6,023	72,309	-271,458	1,985,627
5	61	467	4,530	98,165	-943,620	-2,643,190
6	56	503	8,207	17,086	-731,509	6,297,584
4	82	136	1,769	41,289	608,745	3,154,278
1	34	729	6,491	50,624	386,172	1,295,763
6	48	832	3,928	64,290	-286,591	-3,079,456
4	70	541	2,015	13,052	-916,230	-8,963,425
7	13	380	7,458	32,105	168,905	9,875,046
Answer (7)						

Pyramid Lv. 4

Lv. 4-3

						(6)
					(5)	
				(4)		
			(3)			
		(2)				
(1)						
7	30	507	1,750	39,627	279,360	7,042,683
6	74	692	7,149	91,047	-147,205	-6,127,349
3	69	426	5,234	45,736	591,870	-1,563,028
6	58	160	2,845	60,342	506,297	-1,389,750
3	41	253	6,208	76,198	924,173	-1,065,472
2	75	143	1,029	73,250	-839,476	5,417,389
5	97	941	8,392	31,958	520,318	3,698,705
8	23	309	3,486	62,851	783,920	2,896,145
7	72	534	3,906	28,690	504,713	5,104,283
Answer (7)						-2,914,867

Pyramid Lv. 4

Lv. 4-4

						(6)
					(5)	
				(4)		
			(3)			
		(2)				
(1)						
2	10	170	8,473	96,478	583,426	1,364,025
4	38	602	8,945	29,361	-671,230	-2,630,758
9	72	461	1,320	35,026	-850,214	-1,026,594
1	94	836	9,657	54,160	459,180	4,873,956
2	85	863	7,408	15,073	924,105	3,075,166
6	56	942	2,054	50,213	346,985	-240,869
9	61	387	9,862	74,689	-360,792	-3,482,975
4	40	354	5,240	13,784	738,451	1,792,368
6	39	278	6,137	58,642	-981,657	4,135,809
Answer (7)						7,904,136

Answers Pyramid

Pyramid Lv. 4

	Lv. 4-1	Lv. 4-2	Lv. 4-3	Lv. 4-4
(1)	46	42	47	43
(2)	579	529	586	538
(3)	5,682	5,476	5,335	6,190
(4)	74,296	64,833	49,884	78,194
(5)	842,890	735,526	729,324	681,124
(6)	2,061,874	1,769,545	3,194,347	2,522,410
(7)	21,934,745	10,201,889	25,874,669	18,909,659