

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. 2

Lv. 2-1

						(6)
					(5)	
				(4)		
			(3)			
		(2)				
(1)						
9	64	630	5,218	92,816	-475,612	1,740,632
5	38	587	3,967	24,197	-854,716	-8,970,432
2	21	634	2,501	96,485	382,495	-2,364,971
1	50	426	7,350	80,394	210,463	-1,638,950
3	82	598	9,286	38,567	-984,536	9,124,867
Answer (7)						

Pyramid Lv. 2

Lv. 2-2

						(6)
					(5)	
				(4)		
			(3)			
		(2)				
(1)						
7	63	397	8,462	74,156	-384,962	-8,259,130
5	19	512	2,364	46,085	-238,657	-9,782,016
3	70	468	3,510	35,926	859,304	8,561,972
6	45	981	9,503	71,683	672,513	5,180,234
8	56	803	1,204	69,234	821,049	-4,063,928
Answer (7)						

Pyramid Lv. 2

Lv. 2-3

						(6)
					(5)	
				(4)		
			(3)			
		(2)				
(1)						
4	91	518	5,267	31,097	640,589	9,817,653
5	54	529	1,786	63,729	-396,520	-2,685,130
6	68	865	3,614	51,602	276,301	-8,901,346
7	45	436	2,049	63,849	208,916	-3,765,489
6	31	879	7,312	74,238	832,591	9,415,026
Answer (7)						

Pyramid Lv. 2

Lv. 2-4

						(6)
					(5)	
				(4)		
			(3)			
		(2)				
(1)						
9	74	843	3,726	62,985	732,641	-9,680,723
2	63	761	9,437	35,107	957,104	5,067,923
5	40	275	2,348	26,581	-704,823	-5,348,721
7	15	107	9,523	92,430	253,674	-1,283,479
8	97	852	5,183	50,479	-178,594	2,317,456
Answer (7)						

Answers Pyramid

Pyramid Lv. 2

	Lv. 2-1	Lv. 2-2	Lv. 2-3	Lv. 2-4
(1)	20	29	28	31
(2)	275	282	317	320
(3)	3,941	3,689	4,248	3,679
(4)	46,069	44,487	36,061	43,775
(5)	562,485	502,471	579,454	481,215
(6)	1,254,476	2,890,990	2,154,061	2,041,579
(7)	13,064,382	12,188,441	23,483,421	16,219,999