

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
1	$465 \times 37 =$	
2	$385 \times 381 =$	
3	$5,923 \times 286 =$	
4	$4,902 \times 7,983 =$	
5	$70,315 \times 1,703 =$	
6	$50,976 \times 29,638 =$	
7	$513,602 \times 67,158 =$	
8	$198,347 \times 321,957 =$	
9	$2,809,674 \times 971,605 =$	
10	$4,270,169 \times 9,458,602 =$	

Pyramid Lv. 4		Lv. 4-2
1	$176 \times 19 =$	
2	$832 \times 428 =$	
3	$3,896 \times 608 =$	
4	$7,386 \times 9,473 =$	
5	$28,053 \times 9,346 =$	
6	$20,894 \times 12,487 =$	
7	$329,576 \times 39,542 =$	
8	$813,092 \times 861,705 =$	
9	$1,392,875 \times 827,945 =$	
10	$8,642,197 \times 3,829,167 =$	

Pyramid Lv. 4		Lv. 4-3
1	$491 \times 27 =$	
2	$789 \times 607 =$	
3	$4,597 \times 859 =$	
4	$5,386 \times 5,712 =$	
5	$97,503 \times 7,432 =$	
6	$14,967 \times 53,482 =$	
7	$274,139 \times 20,748 =$	
8	$865,394 \times 140,976 =$	
9	$1,756,948 \times 683,054 =$	
10	$7,346,082 \times 1,938,204 =$	

Pyramid Lv. 4		Lv. 4-4
1	$478 \times 87 =$	
2	$105 \times 479 =$	
3	$8,172 \times 896 =$	
4	$9,123 \times 6,304 =$	
5	$83,719 \times 1,856 =$	
6	$60,395 \times 54,671 =$	
7	$632,709 \times 35,068 =$	
8	$658,703 \times 164,928 =$	
9	$5,601,238 \times 249,178 =$	
10	$8,472,615 \times 2,160,785 =$	

Answers Pyramid

Pyramid Lv. 4

	Lv. 4-1	Lv. 4-2	Lv. 4-3	Lv. 4-4
1	17,205	3,344	13,257	41,586
2	146,685	356,096	478,923	50,295
3	1,693,978	2,368,768	3,948,823	7,322,112
4	39,132,666	69,967,578	30,764,832	57,511,392
5	119,746,445	262,183,338	724,642,296	155,382,464
6	1,510,826,688	260,903,378	800,465,094	3,301,855,045
7	34,492,483,116	13,032,094,192	5,687,835,972	22,187,839,212
8	63,859,205,079	700,645,441,860	121,999,784,544	108,638,568,384
9	2,729,893,306,770	1,153,223,891,875	1,200,090,359,192	1,395,705,282,364
10	40,389,829,043,738	33,092,415,559,899	14,238,205,516,728	18,307,499,402,775