

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. 1		Lv. 1-1
1	$3 \times 2 =$	
2	$39 \times 9 =$	
3	$17 \times 24 =$	
4	$976 \times 59 =$	
5	$401 \times 713 =$	
6	$2,671 \times 971 =$	
7	$5,091 \times 2,654 =$	
8	$68,315 \times 8,653 =$	
9	$68,734 \times 65,781 =$	
10	$704,326 \times 82,976 =$	

Pyramid Lv. 1		Lv. 1-2
1	$4 \times 9 =$	
2	$52 \times 6 =$	
3	$41 \times 69 =$	
4	$258 \times 54 =$	
5	$961 \times 564 =$	
6	$5,498 \times 516 =$	
7	$2,175 \times 7,816 =$	
8	$81,475 \times 4,106 =$	
9	$60,294 \times 17,364 =$	
10	$518,907 \times 59,326 =$	

Pyramid Lv. 1		Lv. 1-3
1	$9 \times 6 =$	
2	$28 \times 8 =$	
3	$63 \times 14 =$	
4	$718 \times 31 =$	
5	$164 \times 416 =$	
6	$7,923 \times 503 =$	
7	$3,587 \times 2,756 =$	
8	$51,204 \times 8,703 =$	
9	$12,309 \times 10,752 =$	
10	$958,024 \times 67,954 =$	

Pyramid Lv. 1		Lv. 1-4
1	$3 \times 5 =$	
2	$34 \times 8 =$	
3	$79 \times 59 =$	
4	$521 \times 81 =$	
5	$476 \times 753 =$	
6	$8,045 \times 743 =$	
7	$2,136 \times 8,732 =$	
8	$80,716 \times 3,104 =$	
9	$39,147 \times 78,652 =$	
10	$409,125 \times 97,316 =$	

Answers Pyramid

Pyramid Lv. 1

	Lv. 1-1	Lv. 1-2	Lv. 1-3	Lv. 1-4
1	6	36	54	15
2	351	312	224	272
3	408	2,829	882	4,661
4	57,584	13,932	22,258	42,201
5	285,913	542,004	68,224	358,428
6	2,593,541	2,836,968	3,985,269	5,977,435
7	13,511,514	16,999,800	9,885,772	18,651,552
8	591,129,695	334,536,350	445,628,412	250,542,464
9	4,521,391,254	1,046,945,016	132,346,368	3,078,989,844
10	58,442,154,176	30,784,676,682	65,101,562,896	39,814,408,500