

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
1	$17 \times 95 =$	
2	$589 \times 34 =$	
3	$705 \times 416 =$	
4	$8,675 \times 951 =$	
5	$2,746 \times 5,837 =$	
6	$13,809 \times 9,873 =$	
7	$79,145 \times 76,254 =$	
8	$183,457 \times 35,287 =$	
9	$734,182 \times 789,025 =$	
10	$5,217,693 \times 864,975 =$	

Pyramid Lv. 3		Lv. 3-2
1	$56 \times 14 =$	
2	$836 \times 61 =$	
3	$428 \times 735 =$	
4	$2,096 \times 436 =$	
5	$7,189 \times 7,013 =$	
6	$47,192 \times 1,263 =$	
7	$76,953 \times 94,381 =$	
8	$470,856 \times 74,185 =$	
9	$752,316 \times 987,361 =$	
10	$8,056,291 \times 125,893 =$	

Pyramid Lv. 3		Lv. 3-3
1	$36 \times 62 =$	
2	$391 \times 48 =$	
3	$618 \times 642 =$	
4	$2,489 \times 791 =$	
5	$4,096 \times 7,519 =$	
6	$93,127 \times 3,592 =$	
7	$25,473 \times 45,917 =$	
8	$916,572 \times 60,824 =$	
9	$217,364 \times 831,072 =$	
10	$3,417,506 \times 870,139 =$	

Pyramid Lv. 3		Lv. 3-4
1	$53 \times 39 =$	
2	$326 \times 91 =$	
3	$806 \times 417 =$	
4	$5,642 \times 328 =$	
5	$4,268 \times 5,046 =$	
6	$70,239 \times 3,875 =$	
7	$97,801 \times 92,017 =$	
8	$230,576 \times 94,376 =$	
9	$341,072 \times 597,214 =$	
10	$9,813,427 \times 583,627 =$	

Answers Pyramid

Pyramid Lv. 3

	Lv. 3-1	Lv. 3-2	Lv. 3-3	Lv. 3-4
1	1,615	784	2,232	2,067
2	20,026	50,996	18,768	29,666
3	293,280	314,580	396,756	336,102
4	8,249,925	913,856	1,968,799	1,850,576
5	16,028,402	50,416,457	30,797,824	21,536,328
6	136,336,257	59,603,496	334,512,184	272,176,125
7	6,035,122,830	7,262,901,093	1,169,643,741	8,999,354,617
8	6,473,647,159	34,930,452,360	55,749,575,328	21,760,840,576
9	579,287,952,550	742,807,478,076	180,645,134,208	203,692,973,408
10	4,513,174,002,675	1,014,230,642,863	2,973,705,253,334	5,727,380,959,729