

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	$2 \times 7 =$	
2	$67 \times 4 =$	
3	$97 \times 83 =$	
4	$256 \times 47 =$	
5	$784 \times 762 =$	
6	$1,075 \times 407 =$	
7	$9,583 \times 7,015 =$	
8	$65,431 \times 1,062 =$	
9	$38,169 \times 31,548 =$	
10	$937,061 \times 30,715 =$	

Pyramid Lv. 1		Lv. 1-2
1	$9 \times 2 =$	
2	$91 \times 3 =$	
3	$78 \times 34 =$	
4	$908 \times 45 =$	
5	$528 \times 918 =$	
6	$7,265 \times 167 =$	
7	$5,692 \times 9,401 =$	
8	$57,928 \times 8,467 =$	
9	$29,673 \times 68,325 =$	
10	$712,385 \times 24,637 =$	

Pyramid Lv. 1		Lv. 1-3
1	$6 \times 5 =$	
2	$48 \times 9 =$	
3	$29 \times 15 =$	
4	$532 \times 39 =$	
5	$504 \times 749 =$	
6	$4,163 \times 476 =$	
7	$8,147 \times 5,648 =$	
8	$83,179 \times 5,876 =$	
9	$91,064 \times 82,175 =$	
10	$357,284 \times 42,086 =$	

Pyramid Lv. 1		Lv. 1-4
1	$7 \times 2 =$	
2	$45 \times 8 =$	
3	$94 \times 34 =$	
4	$271 \times 18 =$	
5	$247 \times 586 =$	
6	$8,053 \times 175 =$	
7	$8,037 \times 5,198 =$	
8	$38,071 \times 9,045 =$	
9	$69,034 \times 21,846 =$	
10	$892,413 \times 63,129 =$	

Answers Pyramid

Pyramid Lv. 1

	Lv. 1-1	Lv. 1-2	Lv. 1-3	Lv. 1-4
1	/4	/8	30	/4
2	268	273	432	360
3	8,051	2,652	435	3,196
4	/2,032	40,860	20,748	4,878
5	597,408	484,704	377,496	/44,742
6	437,525	/,213,255	/,981,588	/,409,275
7	67,224,745	53,510,492	46,014,256	41,776,326
8	69,487,722	490,476,376	488,759,804	344,352,195
9	/,204,155,612	2,027,407,725	7,483,184,200	/,508,116,764
10	28,781,828,615	/7,551,029,245	/5,036,654,424	56,337,140,277