

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	$3,496 \div 92 =$	
2	$21,177 \div 39 =$	
3	$198,135 \div 629 =$	
4	$878,589 \div 369 =$	
5	$3,651,055 \div 1,297 =$	
6	$151,133,989 \div 7,213 =$	
7	$2,239,616,678 \div 41,593 =$	
8	$25,077,230,384 \div 27,806 =$	
9	$225,652,792,064 \div 401,536 =$	
10	$1,735,421,906,570 \div 309,815 =$	

Pyramid Lv. 3		Lv. 3-2
1	$5,978 \div 61 =$	
2	$38,915 \div 43 =$	
3	$162,604 \div 689 =$	
4	$399,564 \div 198 =$	
5	$16,949,268 \div 2,163 =$	
6	$112,165,625 \div 1,625 =$	
7	$8,731,225,688 \div 96,284 =$	
8	$34,802,901,934 \div 53,617 =$	
9	$69,232,840,642 \div 130,682 =$	
10	$4,052,892,189,192 \div 659,274 =$	

Pyramid Lv. 3		Lv. 3-3
1	$8,736 \div 96 =$	
2	$32,436 \div 53 =$	
3	$368,632 \div 781 =$	
4	$795,046 \div 109 =$	
5	$9,766,029 \div 5,603 =$	
6	$90,116,897 \div 1,807 =$	
7	$2,677,722,713 \div 41,827 =$	
8	$7,141,569,406 \div 18,734 =$	
9	$483,042,111,657 \div 859,021 =$	
10	$3,379,695,330,374 \div 450,391 =$	

Pyramid Lv. 3		Lv. 3-4
1	$2,296 \div 82 =$	
2	$63,375 \div 65 =$	
3	$40,548 \div 218 =$	
4	$1,550,454 \div 158 =$	
5	$10,989,601 \div 5,327 =$	
6	$97,225,643 \div 4,087 =$	
7	$932,375,214 \div 25,614 =$	
8	$22,517,231,342 \div 94,807 =$	
9	$577,181,719,288 \div 724,936 =$	
10	$565,221,101,262 \div 150,398 =$	

Answers Pyramid

Pyramid Lv. 3

	Lv. 3-1	Lv. 3-2	Lv. 3-3	Lv. 3-4
1	38	98	91	28
2	543	905	612	975
3	315	236	472	186
4	2,381	2,018	7,294	9,813
5	2,815	7,836	1,743	2,063
6	20,953	69,025	49,871	23,789
7	53,846	90,682	64,019	36,401
8	901,864	649,102	381,209	237,506
9	561,974	529,781	562,317	796,183
10	5,601,478	6,147,508	7,503,914	3,758,169