

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. 5		Lv. 5-1
1	$91,800 \div 675 =$	
2	$1,872,222 \div 627 =$	
3	$11,492,644 \div 9,028 =$	
4	$690,490,818 \div 8,037 =$	
5	$1,568,600,784 \div 45,372 =$	
6	$16,440,212,582 \div 53,126 =$	
7	$116,804,178,117 \div 213,609 =$	
8	$999,079,886,657 \div 789,263 =$	
9	$14,388,871,593,257 \div 3,516,709 =$	
10	$652,160,141,032,876 \div 7,809,326 =$	

Pyramid Lv. 5		Lv. 5-2
1	$50,546 \div 127 =$	
2	$1,347,549 \div 267 =$	
3	$20,585,799 \div 6,021 =$	
4	$515,812,090 \div 7,235 =$	
5	$4,621,717,646 \div 54,691 =$	
6	$30,560,853,138 \div 45,039 =$	
7	$305,859,686,363 \div 429,187 =$	
8	$786,373,814,260 \div 207,985 =$	
9	$84,812,646,943,704 \div 9,056,238 =$	
10	$119,137,474,679,304 \div 6,973,048 =$	

Pyramid Lv. 5		Lv. 5-3
1	$46,065 \div 249 =$	
2	$4,382,352 \div 624 =$	
3	$76,548,925 \div 8,209 =$	
4	$94,515,988 \div 4,756 =$	
5	$2,060,585,088 \div 24,978 =$	
6	$4,629,137,536 \div 12,784 =$	
7	$110,909,805,955 \div 301,265 =$	
8	$3,205,150,363,968 \div 782,153 =$	
9	$64,373,771,211,365 \div 7,365,281 =$	
10	$769,988,606,806,504 \div 8,516,392 =$	

Pyramid Lv. 5		Lv. 5-4
1	$339,438 \div 834 =$	
2	$3,122,064 \div 891 =$	
3	$23,093,258 \div 2,593 =$	
4	$720,348,384 \div 8,342 =$	
5	$810,437,676 \div 12,548 =$	
6	$54,021,195,814 \div 94,726 =$	
7	$435,321,662,224 \div 751,934 =$	
8	$2,442,189,123,957 \div 513,249 =$	
9	$11,564,734,411,612 \div 6,301,298 =$	
10	$253,720,577,248,625 \div 2,695,703 =$	

Answers Pyramid

Pyramid Lv. 5

	Lv. 5-1	Lv. 5-2	Lv. 5-3	Lv. 5-4
1	136	398	185	407
2	2,986	5,047	7,023	3,504
3	1,273	3,419	9,325	8,906
4	85,914	71,294	19,873	86,352
5	34,572	84,506	82,496	64,587
6	309,457	678,542	362,104	570,289
7	546,813	712,649	368,147	578,936
8	1,265,839	3,780,916	4,097,856	4,758,293
9	4,091,573	9,365,108	8,740,165	1,835,294
10	83,510,426	17,085,423	90,412,537	94,120,375