

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. 6		Lv. 6-1
1	$7,129 \times 902 =$	
2	$6,039 \times 9,712 =$	
3	$12,065 \times 2,184 =$	
4	$57,186 \times 34,587 =$	
5	$259,683 \times 37,906 =$	
6	$984,163 \times 653,482 =$	
7	$6,783,501 \times 194,072 =$	
8	$3,174,065 \times 5,702,698 =$	
9	$71,803,254 \times 4,730,596 =$	
10	$47,308,652 \times 71,236,598 =$	

Pyramid Lv. 6		Lv. 6-2
1	$7,246 \times 465 =$	
2	$5,417 \times 2,546 =$	
3	$94,708 \times 8,125 =$	
4	$56,203 \times 93,704 =$	
5	$849,716 \times 96,153 =$	
6	$591,063 \times 386,742 =$	
7	$2,587,361 \times 875,302 =$	
8	$5,643,081 \times 4,397,182 =$	
9	$39,725,164 \times 8,510,943 =$	
10	$68,319,405 \times 60,215,748 =$	

Pyramid Lv. 6		Lv. 6-3
1	$1,789 \times 257 =$	
2	$3,402 \times 7,568 =$	
3	$42,785 \times 1,704 =$	
4	$23,817 \times 98,321 =$	
5	$952,601 \times 53,268 =$	
6	$502,697 \times 849,253 =$	
7	$7,812,465 \times 701,846 =$	
8	$2,807,564 \times 9,037,248 =$	
9	$18,039,572 \times 9,085,613 =$	
10	$62,580,439 \times 49,602,137 =$	

Pyramid Lv. 6		Lv. 6-4
1	$9,405 \times 924 =$	
2	$7,135 \times 5,781 =$	
3	$79,465 \times 4,059 =$	
4	$38,652 \times 57,268 =$	
5	$305,289 \times 98,452 =$	
6	$275,048 \times 596,204 =$	
7	$9,425,307 \times 530,617 =$	
8	$6,058,297 \times 2,798,156 =$	
9	$83,975,216 \times 4,097,516 =$	
10	$16,072,945 \times 70,589,431 =$	

Answers Pyramid

Pyramid Lv. 6

	Lv. 6-1	Lv. 6-2	Lv. 6-3	Lv. 6-4
1	6,430,358	3,369,390	459,773	8,690,220
2	58,650,768	13,791,682	25,746,336	41,247,435
3	26,349,960	769,502,500	72,905,640	322,548,435
4	1,977,892,182	5,266,445,912	2,341,711,257	2,213,522,736
5	9,843,543,798	81,702,742,548	50,743,150,068	30,056,312,628
6	643,132,805,566	228,588,886,746	426,916,935,341	163,984,717,792
7	1,316,487,606,072	2,264,722,258,022	5,483,147,310,390	5,001,228,124,419
8	18,100,734,127,370	24,813,654,197,742	25,372,652,143,872	16,952,060,100,332
9	339,672,186,159,384	338,098,606,469,652	163,900,569,877,636	344,089,791,163,456
10	3,370,107,424,445,896	4,113,904,074,989,940	3,104,123,508,798,143	1,134,580,042,044,295