

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	$675 \times 237 =$	
2	$9,387 \times 627 =$	
3	$8,274 \times 8,205 =$	
4	$46,837 \times 6,314 =$	
5	$28,753 \times 60,592 =$	
6	$970,835 \times 92,315 =$	
7	$187,935 \times 157,349 =$	
8	$3,687,214 \times 250,387 =$	
9	$4,105,263 \times 5,691,437 =$	
10	$45,726,891 \times 6,819,372 =$	

Pyramid Lv. 5		Lv. 5-2
1	$698 \times 321 =$	
2	$8,735 \times 136 =$	
3	$9,725 \times 9,745 =$	
4	$76,453 \times 7,324 =$	
5	$93,861 \times 83,675 =$	
6	$608,243 \times 42,561 =$	
7	$896,023 \times 643,107 =$	
8	$6,439,157 \times 874,139 =$	
9	$9,316,024 \times 8,615,049 =$	
10	$15,897,206 \times 8,271,906 =$	

Pyramid Lv. 5		Lv. 5-3
1	$946 \times 185 =$	
2	$2,501 \times 436 =$	
3	$4,516 \times 8,479 =$	
4	$42,065 \times 9,256 =$	
5	$76,291 \times 94,076 =$	
6	$175,094 \times 28,739 =$	
7	$348,257 \times 312,708 =$	
8	$6,125,783 \times 164,908 =$	
9	$9,348,267 \times 1,268,593 =$	
10	$37,621,504 \times 8,492,651 =$	

Pyramid Lv. 5		Lv. 5-4
1	$608 \times 183 =$	
2	$6,594 \times 481 =$	
3	$5,203 \times 4,296 =$	
4	$13,906 \times 9,427 =$	
5	$65,432 \times 43,789 =$	
6	$804,651 \times 98,421 =$	
7	$723,619 \times 925,107 =$	
8	$3,702,659 \times 841,926 =$	
9	$7,193,246 \times 5,871,649 =$	
10	$80,315,964 \times 1,730,268 =$	

Answers Pyramid

Pyramid Lv. 5

	Lv. 5-1	Lv. 5-2	Lv. 5-3	Lv. 5-4
1	159,975	224,058	175,010	111,264
2	5,885,649	1,187,960	1,090,436	3,171,714
3	67,888,170	94,770,125	38,291,164	22,352,088
4	295,728,818	559,941,772	389,353,640	131,091,862
5	1,742,201,776	7,853,819,175	7,177,152,116	2,865,201,848
6	89,622,633,025	25,887,430,323	5,032,026,466	79,194,556,071
7	29,571,384,315	576,238,663,461	108,902,749,956	669,425,002,233
8	923,230,451,818	5,628,718,260,823	1,010,190,622,964	3,117,364,881,234
9	23,364,845,732,931	80,258,003,245,176	11,859,146,078,331	42,236,215,682,654
10	311,828,680,132,452	131,500,193,694,636	319,506,303,567,104	138,968,142,398,352