

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. 7		Lv. 7-1
1	$4,158 \times 2,803 =$	
2	$14,537 \times 8,475 =$	
3	$10,983 \times 68,304 =$	
4	$506,813 \times 87,425 =$	
5	$678,415 \times 278,943 =$	
6	$2,036,174 \times 243,069 =$	
7	$7,598,412 \times 7,451,982 =$	
8	$67,034,859 \times 4,297,603 =$	
9	$35,467,289 \times 74,810,935 =$	
10	$216,708,345 \times 34,987,051 =$	

Pyramid Lv. 7		Lv. 7-2
1	$3,625 \times 3,176 =$	
2	$27,305 \times 3,415 =$	
3	$52,497 \times 57,198 =$	
4	$608,297 \times 10,692 =$	
5	$971,605 \times 614,283 =$	
6	$2,768,513 \times 398,561 =$	
7	$5,968,472 \times 5,391,087 =$	
8	$14,530,972 \times 5,312,847 =$	
9	$36,814,725 \times 93,021,645 =$	
10	$346,801,297 \times 56,790,482 =$	

Pyramid Lv. 7		Lv. 7-3
1	$9,385 \times 7,895 =$	
2	$23,796 \times 3,794 =$	
3	$30,498 \times 51,876 =$	
4	$540,182 \times 61,829 =$	
5	$940,125 \times 706,234 =$	
6	$3,972,058 \times 975,348 =$	
7	$8,025,643 \times 1,269,804 =$	
8	$52,643,981 \times 4,105,269 =$	
9	$70,189,263 \times 49,260,158 =$	
10	$674,508,129 \times 96,145,702 =$	

Pyramid Lv. 7		Lv. 7-4
1	$4,367 \times 6,708 =$	
2	$26,901 \times 7,831 =$	
3	$97,152 \times 78,946 =$	
4	$382,041 \times 96,082 =$	
5	$562,347 \times 853,706 =$	
6	$1,794,283 \times 438,961 =$	
7	$7,386,094 \times 3,564,871 =$	
8	$34,206,971 \times 2,345,601 =$	
9	$15,239,684 \times 52,610,783 =$	
10	$532,901,467 \times 81,257,063 =$	

Answers Pyramid

Pyramid Lv. 7

	Lv. 7-1	Lv. 7-2	Lv. 7-3	Lv. 7-4
1	11,654,874	11,513,000	74,094,575	29,293,836
2	123,201,075	93,246,575	90,282,024	210,661,731
3	750,182,832	3,002,723,406	1,582,114,248	7,669,761,792
4	44,308,126,525	6,503,911,524	33,398,912,878	36,707,263,362
5	189,239,115,345	596,840,434,215	663,948,239,250	480,079,007,982
6	494,930,778,006	1,103,421,309,793	3,874,138,826,184	787,620,259,963
7	56,623,229,452,584	32,176,551,809,064	10,190,993,583,972	26,330,472,303,874
8	288,089,211,142,977	77,200,830,997,284	216,117,703,235,889	80,235,905,384,571
9	2,653,341,052,005,215	3,424,566,279,722,625	3,457,534,185,283,554	801,771,707,912,572
10	7,581,985,918,640,595	19,695,012,814,855,154	64,851,057,567,411,558	43,302,008,076,811,421