

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	$45,165,656 \div 4,856 =$	
2	$42,464,325 \div 1,725 =$	
3	$2,500,009,848 \div 42,578 =$	
4	$69,241,942,377 \div 81,759 =$	
5	$19,853,100,066 \div 159,382 =$	
6	$675,785,171,985 \div 210,859 =$	
7	$13,389,089,466,577 \div 1,563,749 =$	
8	$441,938,246,597,868 \div 9,740,326 =$	
9	$1,421,550,816,570,547 \div 17,602,943 =$	
10	$6,677,468,811,851,684 \div 20,769,154 =$	

Pyramid Lv. 7		Lv. 7-2
1	$8,309,283 \div 4,321 =$	
2	$26,940,472 \div 1,079 =$	
3	$7,998,357,514 \div 95,681 =$	
4	$7,082,045,416 \div 10,376 =$	
5	$424,698,482,299 \div 468,059 =$	
6	$2,602,502,791,385 \div 405,391 =$	
7	$9,762,517,838,256 \div 1,068,429 =$	
8	$132,730,065,832,802 \div 1,436,207 =$	
9	$8,202,005,261,793,178 \div 90,376,418 =$	
10	$3,017,142,406,258,128 \div 10,793,586 =$	

Pyramid Lv. 7		Lv. 7-3
1	$13,644,796 \div 6,394 =$	
2	$366,980,174 \div 4,598 =$	
3	$2,059,911,150 \div 24,618 =$	
4	$56,575,493,496 \div 93,864 =$	
5	$425,573,812,528 \div 530,924 =$	
6	$3,687,391,178,415 \div 465,207 =$	
7	$59,309,217,189,483 \div 6,542,309 =$	
8	$65,664,752,315,983 \div 2,041,367 =$	
9	$2,053,230,614,040,875 \div 31,690,487 =$	
10	$17,687,101,063,922,610 \div 21,430,865 =$	

Pyramid Lv. 7		Lv. 7-4
1	$90,045,225 \div 9,307 =$	
2	$200,866,608 \div 3,816 =$	
3	$4,507,308,285 \div 84,965 =$	
4	$9,133,961,598 \div 14,607 =$	
5	$605,599,149,861 \div 837,019 =$	
6	$4,115,658,020,802 \div 421,563 =$	
7	$30,804,314,697,684 \div 5,179,284 =$	
8	$76,171,067,241,774 \div 3,061,598 =$	
9	$2,024,707,452,293,966 \div 28,540,391 =$	
10	$33,268,887,548,519,485 \div 80,675,129 =$	

Answers Pyramid

Pyramid Lv. 7

	Lv. 7-1	Lv. 7-2	Lv. 7-3	Lv. 7-4
1	9,301	1,923	2,134	9,675
2	24,617	24,968	79,813	52,638
3	58,716	83,594	83,675	53,049
4	846,903	682,541	602,739	625,314
5	124,563	907,361	801,572	723,519
6	3,204,915	6,419,735	7,926,345	9,762,854
7	8,562,173	9,137,264	9,065,487	5,947,601
8	45,372,018	92,417,086	32,167,049	24,879,513
9	80,756,429	90,753,821	64,790,125	70,941,826
10	321,508,946	279,531,048	825,309,714	412,380,965