

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	$176,955 \div 235 =$	
2	$1,359,032 \div 152 =$	
3	$9,606,564 \div 5,708 =$	
4	$83,302,624 \div 1,283 =$	
5	$2,258,402,308 \div 71,482 =$	
6	$51,705,104,717 \div 82,109 =$	
7	$213,760,731,798 \div 504,318 =$	
8	$9,180,062,161,634 \div 965,237 =$	
9	$52,002,546,837,528 \div 5,341,207 =$	
10	$85,432,062,684,792 \div 3,146,097 =$	

Pyramid Lv. 5		Lv. 5-2
1	$81,972 \div 594 =$	
2	$6,395,424 \div 672 =$	
3	$87,864,289 \div 8,963 =$	
4	$204,709,536 \div 7,284 =$	
5	$2,399,915,547 \div 96,417 =$	
6	$9,018,391,436 \div 12,764 =$	
7	$106,843,335,522 \div 568,491 =$	
8	$3,904,393,794,161 \div 470,269 =$	
9	$61,818,997,887,795 \div 6,894,015 =$	
10	$215,906,912,388,096 \div 3,621,504 =$	

Pyramid Lv. 5		Lv. 5-3
1	$661,440 \div 795 =$	
2	$4,168,638 \div 513 =$	
3	$57,393,875 \div 9,625 =$	
4	$47,767,368 \div 1,254 =$	
5	$6,831,250,006 \div 83,246 =$	
6	$25,961,002,011 \div 31,857 =$	
7	$126,980,460,933 \div 241,037 =$	
8	$2,538,941,805,312 \div 263,091 =$	
9	$13,941,325,085,965 \div 9,375,061 =$	
10	$31,069,611,430,245 \div 1,043,865 =$	

Pyramid Lv. 5		Lv. 5-4
1	$207,480 \div 285 =$	
2	$2,558,607 \div 501 =$	
3	$27,434,936 \div 3,628 =$	
4	$394,871,335 \div 4,061 =$	
5	$1,083,458,844 \div 29,718 =$	
6	$61,038,635,625 \div 71,863 =$	
7	$282,611,179,862 \div 693,458 =$	
8	$2,440,018,321,551 \div 945,387 =$	
9	$49,527,946,663,382 \div 8,173,642 =$	
10	$472,241,229,179,488 \div 5,287,619 =$	

Answers Pyramid

Pyramid Lv. 5

	Lv. 5-1	Lv. 5-2	Lv. 5-3	Lv. 5-4
1	753	138	832	728
2	8,941	9,517	8,126	5,107
3	1,683	9,803	5,963	7,562
4	64,928	28,104	38,092	97,235
5	31,594	24,891	82,061	36,458
6	629,713	706,549	814,923	849,375
7	423,861	187,942	526,809	407,539
8	9,510,682	8,302,469	9,650,432	2,580,973
9	9,736,104	8,967,053	1,487,065	6,059,471
10	27,154,936	59,618,024	29,764,013	89,310,752