



## Monday cup #18

Posted on: July, 29, 2019

Due on: August, 28, 2019



### Problem

17 67 13 A 2 23 53 5	45 75 105 B 15 25 2355	707 525 33 C 4554 832238
91 56 35 D 2247 112 168	WHAT	DO
196 121 E 225 400 4 169	WE	HAVE
1331 125 G 8 343 1 27	IN	COMMON?
4 6 24 3 J 12 8 2 1	235 415 H 606 336 819 729	45 34 78 I 5 9012 678
4 6 24 3 J 12 8 2 1	2221222 1231321 85 94 K 1327 76 2038 751 50044	550 202 L 422 615 981 743

Define a common property for the numbers located in each 8 square

- A. \_\_\_\_\_
- B. \_\_\_\_\_
- C. \_\_\_\_\_
- D. \_\_\_\_\_
- E. \_\_\_\_\_
- F. \_\_\_\_\_
- G. \_\_\_\_\_
- H. \_\_\_\_\_
- I. \_\_\_\_\_
- J. \_\_\_\_\_
- K. \_\_\_\_\_
- L. \_\_\_\_\_

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There was no correct solution to problem 17

### Rules

1. Anyone is eligible to participate. Each solution is to be the work of one individual without any input from faculty or others. An answer must be accompanied by appropriate justifications to be considered correct.
2. The solution is to be submitted with the solver's name, email, year in school (if applicable), local phone number, and local address. If you are submitting this for possible credit in a class, include your class number and instructors name.
3. The solution is to be typed or legibly written. Solutions must be submitted to the by 2 p.m. on the due date.
4. Entries will be graded on clarity of exposition and elegance of solution. An award of **GEL10** will be given for the best correct solution. In the case of a two-way tie, the award will be split. If there are more than two best solutions, a drawing will be held to determine two award winners.
5. Graduate students, faculty, and members of the general public are encouraged to submit solutions, but they will not be considered.

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Solution for this problem can be submitted [proveweek@gmail.com](mailto:proveweek@gmail.com)