



Monday cup #14

Posted on: July 01.2019

Due on: July 07.2019



Problem

Lower Elementary:

Question: Aleksandr has 3 fruit trees in his garden. He picks 8 apples from the apple tree, 6 pears from the pear tree, and 7 limes from the lime tree. How many pieces of fruit did William pick?

Upper Elementary:

Question: Harrison has a full 3-gallon watering can. He uses $\frac{5}{8}$ of the water on the gardenias in his garden. How much water did the gardenias get?

Middle School:

Question: Lily is making labels for the plants in her garden. Each label is made of a white 3" \times 5" laminated against a colorful 5" \times 8" card. What is the area of the front of each label that isn't covered by the white card?

Algebra and Up:

Question: Cameron is selling flowers from his garden. By selling large bouquets for \$21 and small bouquets for \$15, he makes \$540. If he sells a total of 30 bouquets, how many large bouquets did Cameron sell?

There were correct solutions from Mary Thoma (France).

The prize was split between Thoma

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