



## Monday cup #13

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**Posted on:** June 24, 2019

**Due on:** June 30, 2019



### Problem

**Lower Elementary:**

*Question:* Zura had an excellent fishing day. She caught 4 snappers, 6 mackerels, 1 grouper, and 1 soggy boot. She threw half the snappers and half the mackerels back into the ocean. How many fish did she take home?

**Upper Elementary:**

*Question:* Harvey goes to a theme park where tokens cost 75 cents. A roller coaster ride costs 2 tokens. A ride on the Ferris wheel costs 3 tokens. Harvey rides the roller coaster and the Ferris wheel 7 times each. How much did Harvey spend on rides?

**Middle School:**

*Question:* One out of every 250,000 alligators is born white. If there are an estimated 1,750,000 alligators in the state of Florida, how many of them are likely to be white?

**Algebra and Up:**

*Question:* It costs \$20 to rent a jet ski, plus \$1.50 for each hour of use, plus the cost of gas. James rents a jet ski for 2 hours. He uses 3 quarts of gas, which costs \$2.98 per gallon. How much does the jet ski rental cost in total?

**There were correct solutions from Gigi Zakaradze (Georgia, the country).**

**The prize was split between Zakaradze**

### 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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**გერმანეთის თასი, кубок понедельника, Monday cup, Coppa del lunedì, Coupe du lundi**  
**Solution for this problem can be submitted proveweek@gmail.com**