



Problems – 12/12/2025  
The solutions to the problems below  
will be published on Sunday 12/14/2025

MathLovers

**Problem 1.** An aquarium has the shape of a rectangular cuboid. The edges of one aquarium emanating from a vertex at the base have lengths 3m, 5 m, 2 m. The edges of a second aquarium are each longer than the corresponding edges of the first aquarium by a fixed segment. Determine the dimensions of the larger aquarium knowing that its capacity is  $110 \text{ m}^3$  greater than the capacity of the first aquarium.

**Problem 2.** A person has 10 toes on their feet. How many toes does a person have on 10 feet?

*Good Luck!*

We encourage you to submit your solutions via the website:  
<https://mathlovers.eu/submit-solution/>!