November 2023 Problem of the Month

Six large animals are looking forward to eating pumpkin pie for the holidays. They agree on a few conditions.

1) The amounts they eat must form a geometric series.

2) No one gets more than twice anyone else, but no two eat the same amount.

3) The number of ounces of pie each eats must be an integer.

What is the minimum amount of pie that must be made to feed everybody?

Please email solutions to Dr London at slondon@luc.edu in PDF form by 11:59 pm on November 30. The solution with the best explanation will be the winner.

LOYOLA
UNIVERSITY CHICAGO
1870
AD · MAIOREM · DEI · GLORIAM

Preparing people to lead extraordinary lives