

# Warm-Up: Partition Products

Prepared by Mark on June 9, 2026

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**Problem 1:**

Take any positive integer  $n$ .

Now, write it as sum of smaller positive integers:  $n = a_1 + a_2 + \dots + a_k$

Maximize the product  $a_1 \times a_2 \times \dots \times a_k$