Practice Test 1
Brought to you by BIZUEIROS

1. **(HMMT 2020, Álgebra, 2)** Find the unique pair of positive integers (a, b) with $a < b$ for which

$$\frac{2020 - a}{a} \cdot \frac{2020 - b}{b} = 2.$$

2. **(AIME II 2020, 1 ⬈)** Find the number of ordered pairs of positive integers (m, n) such that $m^2 n = 20^{20}$.