

# Warm-Up: Fuse Timers

Prepared by Mark on February 13, 2025

---

**Problem 1:**

Suppose we have two strings and a lighter. Each string takes exactly an hour to fully burn.

However, we do not know how fast each part of the string burns: half might burn in 1 minute, and the rest could take 59.

How can we measure exactly 45 minutes using these two strings?