

Day 3: Basic Probability Puzzles #7

Objective

In this challenge, we practice calculating probability.

Task

A firm produces steel pipes in three plants.

- Plant *A* produces **500** units per day and has a fraction defective output of **0.005**.
- Plant *B* produces **1000** units per day and has a fraction defective output of **0.008**.
- Plant *C* produces **2000** units per day and has a fraction defective output of **0.010**.

At random, a pipe is selected from the day's total production and it is found to be defective. What is the probability that it came from plant *A*?

Output Format

In the editor below, submit your answer as *Plain Text* in the form of an irreducible fraction A/B , where *A* and *B* are both integers.

Your answer should resemble something like:

3/4

(This is **NOT** the answer, just a demonstration of the answer format.)