

# Day 3: Basic Probability Puzzles #6

## Objective

In this challenge, we practice calculating probability.

## Task

Bag  $X$  contains 5 *white* balls and 4 *black* balls. Bag  $Y$  contains 7 *white* balls and 6 *black* balls. You draw 1 ball from bag  $X$  and, without observing its color, put it into bag  $Y$ . Now, if a ball is drawn from bag  $Y$ , find the probability that it is *black*.

## 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.)