

# Day 2: Basic Probability Puzzles #3

## Objective

In this challenge, we practice calculating probability.

## Task

There are 3 urns:  $X$ ,  $Y$  and  $Z$ .

- Urn  $X$  contains 4 red balls and 3 black balls.
- Urn  $Y$  contains 5 red balls and 4 black balls.
- Urn  $Z$  contains 4 red balls and 4 black balls.

One ball is drawn from each urn. What is the probability that the 3 balls drawn consist of 2 red balls and 1 black ball?

## 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.)