

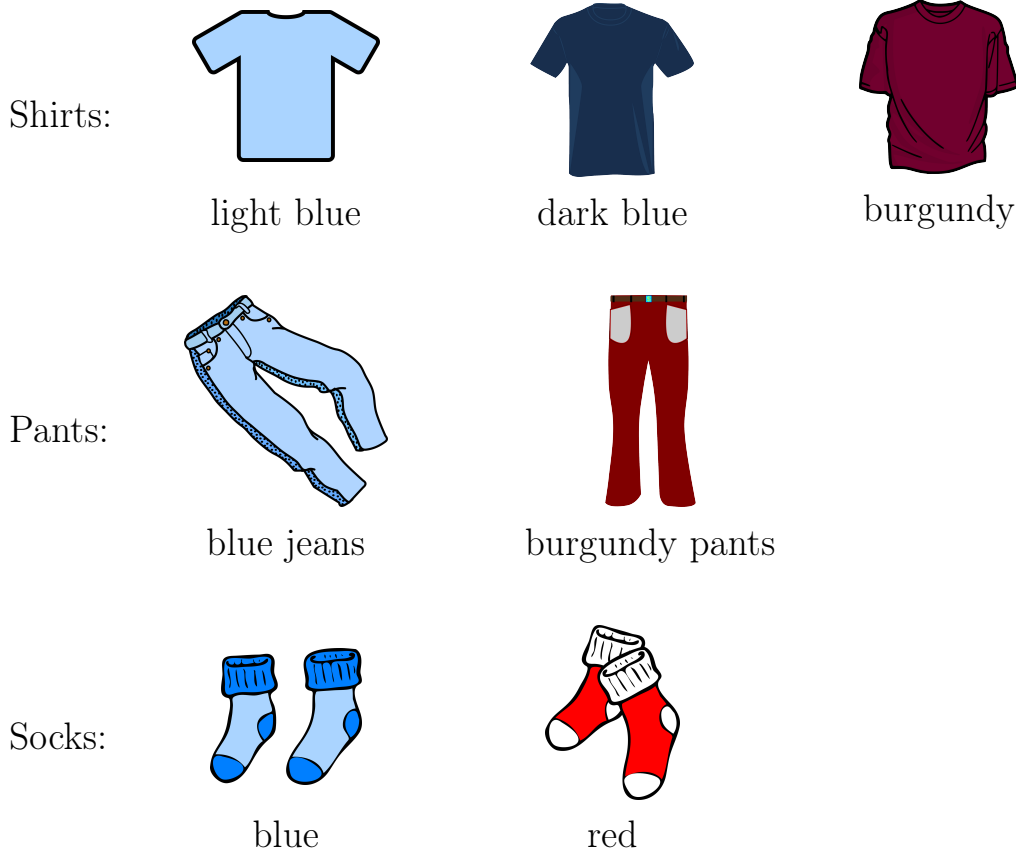


## Problem of the Week

### Problem A

### Wardrobe Malfunction

Rashid has decided to make clothing decisions easy for himself in the morning. He has kept 3 shirts, 2 pairs of pants, and 2 pairs of socks. They are as follows:



Note that Rashid always wears two socks that are the same colour.

- A) How many possible different outfits could Rashid wear?
- B) How many of the outfits from part A contain all blue items?
- C) What fraction of the total possible outfits contain all blue items?
- D) What fraction of the total possible outfits contain at least one burgundy item?