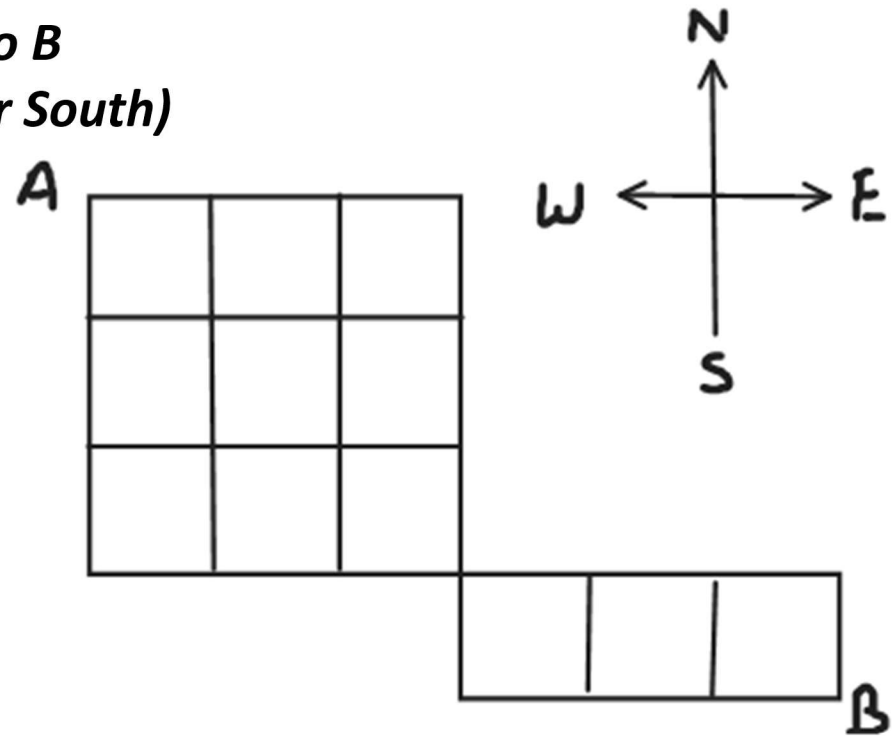


WARMUP / Practice

**1. How many different paths from A to B
(only allowed to move forward; East or South)**



2. MrF has 7 students in the class. He has three different A&W Coupons. Burger, fries, and drink. How many different ways can he randomly hand them out?

3. MrF has 3 coupons for a Big Mac. How many ways could he randomly hand out the coupons to 3 different students if he has 7 students in class?

The probability that Tony will move to Winnipeg is $\frac{2}{9}$, and the probability that he will marry Angelina if he moves to Winnipeg is $\frac{9}{20}$. The probability that he will marry Angelina if he does not move to Winnipeg is $\frac{1}{20}$.

WARMUP / Practice

Draw a tree diagram to show all outcomes.

- a. What is the probability that Tony will move to Winnipeg and marry Angelina?***
- b. What is the probability that Tony does not move to Winnipeg but does marry Angelina?***
- c. What is the probability that Tony does not move to Winnipeg and does not marry Angelina?***