

12.7 Homework

1) Solve

a) $8!$

b) $8P_5$

c) $10C_4$

2) Say whether order matters or order doesn't matter.

a) Picking 5 team members to start the game

b) Ranking sodas from best to worst

3) How many different pizzas can you have with 5 types of crusts & 3 types of sauce?

4) In a race with 10 people, how many different 1st, 2nd, and 3rd place winners can there be?

5) I'm choosing 3 toppings to include on my pizza from 9 different toppings. How many different 3-topping pizzas can I make?