Precalculus Practice S.CP.B.9: Combinations 3 www.jmap.org

1. What is the probability that 4 letters chosen from 6 different letters will be chosen in alphabetical order?

NAME:

3. Four friends order a sweatshirt from a catalog. There are 14 colors of sweatshirts, 8 of which are all cotton and 6 of which are a blend. They each order a different color (no repeats) at random. What is the probability that the friends order only cotton sweatshirts?

- 2. You and two friends visit a pizza shop. There are 15 toppings. Six toppings are meat and the rest are vegetable. You each order a different topping (no repeats) at random. What is the probability that your group orders only meat toppings?
- 4. A president and vice president are selected from a group of 5 girls and 4 boys. What is the probability that both the president and vice president will be girls?

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[1]	$\frac{{}_{6}C_{4}}{{}_{6}P_{4}} = \frac{1}{24}$
[2]	<u>4</u> 91
[3]	$\frac{10}{143}$
[4]	$\frac{5}{18}$