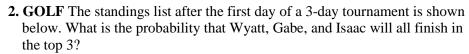
## 13-2 Practice

## **Probability with Permutations and Combinations**

**1. FORMAL DINING** You are handed 5 pieces of silverware for the formal setting shown. If you guess their placement at random, what is the probability that the knife and spoon are placed correctly?

 $\frac{1}{20}$ 



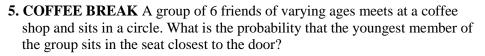
1 56

**3. PHONE NUMBER** What is the probability that a phone number generated using the digits 1, 2, 2, 4, 5, 5, 6, and 2 is the number 654-5222?

1 3360

| <b>4. LETTERS</b> Jaclyn bought some decorative letters for a scrapbook project. |
|--|
| If she selected a permutation of the letters shown, what is the probability that |
| they would form the word "photography"?  |

1 4,989,600





**6. JEWELRY** Bonita bought her mom a charm bracelet. Each charm is labeled with a one-word message. What is the probability that the 5 charms were hung in the order: dream, believe, love, laugh, inspire?

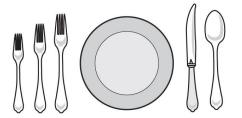


**7. COLLEGES** Mark wants to visit the 10 colleges he is considering attending. He can only spend the night at 3 of them. What is the probability that he spends a night at Rutgers University, a night at the University of Miami, and a night at Clemson University?

 $\frac{1}{120}$ 

**8. ODD JOBS** Matthew put fliers advertising his lawn service on the doors of 20 families' houses in his neighborhood. If 6 families called him, what is the probability that they were the Thompsons, the Rodriguezes, the Jacksons, the Williamses, the Kryceks, and the Carpenters?





| DAY 1 STANDINGS  |    |
|------------------|----|
| MCAFEE,DAVID     | -3 |
| FORD, GABE       | -2 |
| STANDISH,TRISTAN | -2 |
| NOCHOLS,WYATT    | -1 |
| PURCELL,JACK     | -1 |
| ANDERSON,BILL    | -1 |
| WRIGHT, ISAAC    | -1 |
| FILBERT,MITCH    | +1 |

