**LESSON MASTER**

**SKILLS** Objective A

In 1-4, two fair 8-sided dice with faces numbered 1-8, are rolled. Find each probability.
1. \( P(\text{the sum is even}) \)  
2. \( P(\text{the sum is odd but not 7}) \)  
3. \( P(\text{the difference is less than 3}) \)  
4. \( P(\text{the difference is a prime number}) \)

In 5–8, five fair 6-sided dice are used to play Ship, Captain, and Crew. Find each probability.
5. \( P(\text{exactly 1 five is rolled}) \)  
6. \( P(\text{5 fives are rolled}) \)  
7. \( P(\text{the sum of the five dice \( \leq \) 6}) \)  
8. \( P(\text{a one, two, three, four, and five are rolled}) \)

**USES** Objective G

In 9–11, consider an experiment in which a 6-sided die and a 4-sided die are rolled, and the faces the dice rest on constitutes an outcome.
9. List the elements in the experiment’s sample space.
10. List the outcomes in the event “the number rolled on the six-sided die is even.”
11. List the outcomes in the event “the number rolled on both dice is even.”

In 12-14, consider an experiment in which a coin with sides marked H and T is flipped, and a spinner with 3 colors – red, green, and blue – is spun.
12. Give the experiment’s sample space.
13. List the outcomes in the event “the color spun is red.”
14. List the outcomes in the event “heads occur and the color spun is red.”

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