

Practicing Simple Probability

NAME _____ DATE _____ PERIOD _____

9-1

Practice

Simple Events

A set of cards is numbered 1, 2, 3, ... 24. Suppose you pick a card at random without looking. Find the probability of each event. Write as a fraction in simplest form.

1. $P(5)$
2. $P(\text{multiple of } 4)$
3. $P(6 \text{ or } 17)$
4. $P(\text{not equal to } 15)$
5. $P(\text{not a factor of } 6)$
6. $P(\text{odd number})$

COMMUNITY SERVICE The table shows the students involved in community service. Suppose one student is randomly selected to represent the school at a state-wide awards ceremony. Find the probability of each event. Write as a fraction in simplest form.

7. $P(\text{boy})$
8. $P(\text{not } 6\text{th grader})$
9. $P(\text{girl})$
10. $P(8\text{th grader})$
11. $P(\text{boy or girl})$
12. $P(6\text{th or } 7\text{th grader})$
13. $P(7\text{th grader})$
14. $P(\text{not a } 9\text{th grader})$

Community Service	
girls	15
boys	25
6th graders	20
7th graders	8
8th graders	12

MENU A delicatessen serves different menu items, of which 2 are soups, 6 are sandwiches, and 4 are salads. How likely is it for each event to happen if you choose one item at random from the menu? Explain your reasoning.

15. $P(\text{sandwich})$
16. $P(\text{not a soup})$
17. $P(\text{salad})$

18. **NUMBER CUBE** What is the probability of rolling an even number or a prime number on a number cube? Write as a fraction in simplest form.
19. **CLOSING TIME** At a convenience store there is a 25% chance a customer enters the store within one minute of closing time. Describe the complementary event and find its probability.