

Venn Diagrams and Probability

For use after Lesson 11.9

Complete Venn diagrams for each of the following events.

1. Event: One card is randomly drawn from a set of eight cards, numbered 1 through 8.
Set A: The card has an even number on it.
Set B: The card has a prime number on it.
2. Event: A date in March is randomly chosen.
Set A: The date is a perfect square.
Set B: The date is a multiple of 4.
3. Event: A two-digit number is randomly chosen.
Set A: The number is divisible by 11.
Set B: The number is less than 30.
4. Event: A number cube is rolled.
Set A: The result is a prime number.
Set B: The result is less than or equal to 2.
5. Event: Each of 28 students is assigned a number from 1 through 28. One student's number is randomly chosen.
Set A: The number is greater than 12.
Set B: The number ends in 7.
Set C: The number is prime.
6. Event: A one-digit number is randomly chosen.
Set A: The number is a factor of 24.
Set B: The number is less than 8.
Set C: The number is **not** a perfect square.