

Powerball Lottery

Note: This exercise goes with Section 7.3 of Finite Mathematics

In May 1998, a 67-year-old retired electrician from Illinois won a record jackpot of \$195 million in the multistate Powerball lottery.* In this lottery, contestants choose 5 distinct numbers from 1 to 49 for the white balls and one number from 1 to 42 for the red Powerball, and all choices must be correct to win the jackpot. What is the probability of winning the jackpot?

Answers can be found on the next page.

* *The New York Times*, May 22, 1998, p. A1, A14.

Answers to **Powerball Lottery**

1/80,089,128