

## Lottery Activity

① Find the probability of winning each prize awarded. Attach all calculations and show using combinations. (Directions)

2. If you purchase one ticket, what is the probability that you win a prize?

3. If you purchase two tickets, what is the probability that you win a prize?

4. If you purchase one ticket, what is the probability that you don't win a prize?  
(Hint use the answer from #2 and the complementation rule)

5. If you purchased every combination of tickets, how much money would you get?

[For Powerball :Assume the Powerball jackpot is 50 million. Assuming you are taking the cash value (half the jackpot).]

Also, remember there is a 28% tax taken out before you receive your money for both powerball and \$100,000 game.

6. If you were to buy one ticket per week, approximately how long should you expect to wait before winning a prize?

7. If you were to buy one ticket per week, approximately how long should you expect to wait before winning the top prize? Answer in years if more appropriate.

Must be 21 years of age or older to play.

**How To Play**

- To play, choose 5 numbers from 1 to 35 in a column in each play area.
- Each play costs \$1 including sales tax.
- If you like, you can let the computer randomly pick your numbers for you. Just mark the "Easy Pick" box.
- Use blue or black ball point pen or pencil for marking. If you make an error, use a new playslip. DO NOT ERASE.
- You may play your ticket(s) for more than one drawing. Mark the appropriate "Multi-draw" box for consecutive drawings.

**How To Win**

- Each Monday through Saturday evening 5 numbers from 1 to 35 will be drawn.
- You win by matching 5, 4, 3, or 2 of the numbers drawn.
- You win the cash prize shown below for the highest number of matches you have.

Match	Prize	Odds
5	\$100,000*	1:324,632
4	\$100	1:2,164
3	\$5	1:74
2	Free Play	1:8

Overall odds of winning are 1:7.

Odds are rounded to the nearest whole number.

More than three winners per drawing matching five numbers shall share equally in a maximum prize pool of \$300,000. See the Iowa Lottery Rules and Regulations for complete prize rules.

**Important**

Always check your ticket carefully! It is your responsibility to make sure your ticket represents the numbers you want to play and the drawings you want to enter. This playslip does not constitute evidence of ticket purchase or numbers selected. You must present the ticket to claim prizes.

**Rules**

Tickets are only valid for drawing date(s) shown. All tickets, transactions and winners are subject to the procedures, rules and regulations of the Iowa Lottery, state and federal law. Tickets are void and will not be paid if stolen, unissued, illegible, mutilated, altered, counterfeit in whole or in part, misregistered, defective, incomplete, printed or produced in error or multiple printed; if apparent play numbers disagree with numbers on file at the central computer for that ticket; or if ticket fails any of the Lottery's confidential validation tests. Liability for void tickets, if any, is limited to replacement of ticket or refund of retail sales price. Not responsible for lost or stolen tickets. You must be 21 years of age or older to play Lottery games. For complete game rules contact any Lottery office.

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**FOR A GAMBLING ADDICTION PROBLEM,  
CALL 1-800-BETS-OFF (1-800-238-7633).**

**How To Play**

- Must be 21 years of age or older to buy Iowa Lottery tickets.
- To play choose five numbers from 1 to 55 in the upper play area and choose Powerball number from 1 to 42 in the lower play area.
- Each play costs \$1.00.
- If you like, you can let the computer pick your numbers for you. Just mark the "Easy Pick" box in the appropriate play area(s).
- Use blue or black ball-point pen or pencil for marking. If you use a new play slip. DO NOT ERASE.
- You may play your number selection for more than one drawing. Mark appropriate "Multi-draw" box for consecutive drawings.

**How To Win**

- On Wednesdays and Saturdays, five numbers from 1 to 55 and one Powerball number from 1 to 42 will be drawn.
- You win the cash prize shown below for the highest number of matches you have.

Match	Prize	Winning Odds
5+1	Jackpot*	1:146,107,962
5+0	\$200,000	1:3,563,609
4+1	\$10,000	1:584,432
4+0	\$100	1:14,254
3+1	\$100	1:11,927
3+0	\$7	1:291
2+1	\$7	1:745
1+1	\$4	1:127
0+1	\$3	1:69

The overall odds of winning are 1:37.  
Odds are rounded to the nearest whole number.

The Grand Prize is paid as an annuity of 30 payments over 29 years or, at the election of the winner, in a single lump-sum payment of the present cash value of the annuity prize. If the winner chooses the annuity, the annual payments will increase each year by a percentage set out in the Powerball game rules. The size of the prize amounts published herein are based on the expected number of winners sharing in the prize pool. In some cases, these prizes may be paid on a prorated basis and will be lower than these prize levels.

\*The jackpot prize will be divided equally among multiple winners based on the amount available to the Lottery for the jackpot prize pool.

**Important**

Always check your ticket carefully! It is your responsibility to make sure your ticket represents the numbers you want to play and the drawings you want to enter. Powerball tickets cannot be cancelled. This play slip does not constitute evidence of ticket purchase or numbers selected. If you believe you have won and the terminal rejects or a retailer disputes the validity of your prize claim, you may submit your claim directly to the Iowa Lottery for review. You must present the ticket to claim prizes.

**Rules**

Tickets are only valid for drawing date(s) shown. All tickets, transactions and winners are subject to the procedures, rules and regulations of the Iowa Lottery and state and federal law. Tickets are void and will not be paid if stolen, unissued, illegible, mutilated, altered, counterfeit in whole or in part, misregistered, defective, incomplete, printed or produced in error or multiple printed; if apparent play numbers disagree with numbers on file at the central computer for that ticket; or if ticket fails any of the Lottery's confidential validation tests. Liability for void tickets, if any, is limited to replacement of the ticket or refund of retail sales price. Not responsible for lost or stolen tickets. For complete game rules contact any Iowa Lottery office.

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**If you or someone you know has a gambling addiction problem,  
Call 1-800-BETS-OFF, 1-800-238-7633.**

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Iowa Lottery