Introduction To Lottery Strategies and Systems
Agenda

0 Company Background and Introduction
   - History, Why people play, Public service
   - Lotto playing framework

0 What Are The Critical Questions?
   - How much money do I want to win?
   - Which lottery game should I play?
   - How much money should I invest?
   - How should I pick my numbers?
   - What type of system should I use?
   - Should I work with others to win?
   - Does all this thinking and analysis really make a difference?

0 Question and Answer Session

"Winning Through Strategy"
Lotto Systems Group Background and Mission

Our Mission:

0 Improve the quality of lottery play through education
0 Increase player's winnings and enjoyment of the games

Our Background:

0 Ryan Wood has provided management consulting for a major lottery book publisher and author, and holds a B.S. in Mathematics and Computer Science from Cal Poly, San Luis Obispo. He has held positions in marketing, sales and engineering at computer, semiconductor and medical imaging firms.

0 Doug Franklin is a 5 out of 6 winner in the CA 6/49 and an avid analyst of all types of lottery systems and strategies. He has an MBA from Golden Gate University in Finance and a B.S. from San Jose State in Finance. He has held positions at the Federal Reserve Bank and Bank of America.
History of Lotteries

0 The first state lottery occurred in the late 1500's in Europe
0 Current wave of lotteries started in New Hampshire in 1963
0 In the US last year some $23 billion was wagered
0 Lotto is a worldwide passion: Australia, Canada, Hong Kong and many European countries
0 Games vary from pick 5, 6 or 7 out of 30 to 90 numbers
0 Daily lotteries include Pick 3 and 4, number and card games
0 Jackpot odds vary from 1 in 142,250 to 1 in almost 55,000,000
0 Prizes vary from instant cash to 25 year annuities
0 33 US States have pick 5 or pick 6 games

0 US lottery officials do not promote the use of systems or strategies

"Winning Through Strategy"
Why do People Play Lotto?

- People play for the Jackpot money and the fame of being wealthy
- People play to have fun "give yourself a thrill", "make your dreams come true"
- People play because they are desperate to escape financial problems
- People play because they believe they will win, despite the odds
- People play to break-even and hope to win the jackpot
- People play because they plan to beat the odds through strategy
- People play scratchers because it is easy and convenient

"Winning Through Strategy"
Why People Do Not Play

1. Playing lotto is a waste of time and money

2. Winning is a random process and nothing you do can influence your chances

3. Success is the result of hard work and savings, not "luck"

4. Gambling is immoral and unethical

5. The options and potential rewards are poorly communicated

6. A fear of social embarrassment because friends and peers will not approve

7. The "fairness" of the lottery is questioned
Caution: Gambling Can Be Addictive

0 Researchers estimate that 3% to 5% of adults are compulsive gamblers
0 Between 1% to 2% of adults are considered pathological gamblers
0 Gamblers Anonymous 1-800-287-8670

0 Symptoms of problem gamblers
   - A preoccupation with gambling and past gambling experiences
   - The need to gamble increasingly large sums of money
   - Restlessness or irritability when trying to reduce or stop gambling
   - Gambling to escape depression, anxiety, guilt or a feeling of helplessness
   - Gambling to make up losses
   - Lying to conceal the extent of gambling
   - Forgery, fraud, theft or embezzlement to fund gambling
   - Loss of job, educational career or significant relationship because of gambling
   - Borrowing to relieve financial situation eroded by gambling
   - Repeated efforts to control or stop gambling
Is The Lottery Fair and Honest?

0 Lottery machine technology and process
   - The numbered balls are changed every few drawings
   - Each set of balls is weighed and multiple sets are used
   - There are sample test draws before and after drawings
   - Auditors watch and record results along with television
   - Major French company manufactures machines and guarantees randomness

0 Psychokinesis, or PK, can affect outcomes up to 1% or 2%

0 The Lottery is a regressive tax on players since less affluent players tend to play more often.

Conclusion: The system is fair and honest and only YOU can make a difference by being informed and using mental or analytic strategies.

"Winning Through Strategy"
Lotto is More Complicated Than A Quick Pick

- Not all lotto combinations are equal. There are many ways to look at lotto numbers other than by random selection.
- Consider the following:
  - There are odd and even balls
  - You can sum the numbers
  - There are end digits
  - Pairs of numbers
  - Past draw histories
  - Frequency of hits and misses
  - Patterns and groups of numbers
  - Jackpot split forecasts
Current Scientific Thinking

- Claim: Every number has the same probability of being selected
- Claim: Every six number combination has the same probability of being selected
- Therefore: Picking the combination 1,2,3,4,5,6 is as good a bet as any other. This deduction is false because:
  - If 1,2,3,4,5,6 had won in the Nov '91 $88 million Florida drawing, you would have split the prize with 28,283 players.
  - No six consecutive numbers have ever won a lottery anywhere!

- Myth: There is nothing you can do to improve your odds.
- This is totally false! You can improve your odds by:
  1) Playing more dollars
  2) Playing the best risk-reward game in the country
  3) Wheeling your bets for better 2nd and 3rd prize capture
  4) Playing with a pool of players, leverage computers, expertise, $$
  5) Eliminating unlikely combinations

"Winning Through Strategy"
### % Of Various 6/51 Combinations

<table>
<thead>
<tr>
<th>6/51</th>
<th># of Combinations</th>
<th>% of Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Six in a row</td>
<td>45</td>
<td>= .000249 %</td>
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<td>Five in a row</td>
<td>2071</td>
<td>= .01%</td>
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<td>Four in a row</td>
<td>99,498</td>
<td>= .6 %</td>
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<tr>
<td>Four in a row &amp; Pair</td>
<td>2,070</td>
<td>= .01%</td>
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<td>Three in a row</td>
<td>652,828</td>
<td>= 3.6 %</td>
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<tr>
<td>Two three in a row</td>
<td>2,068</td>
<td>= .01%</td>
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<tr>
<td>Three in a row &amp; Pair</td>
<td>90,994</td>
<td>= .5%</td>
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<td>Three Pair</td>
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<td>Two Pair</td>
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<td></td>
</tr>
<tr>
<td>One pair</td>
<td></td>
<td></td>
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<tr>
<td>No pairs</td>
<td></td>
<td></td>
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<tr>
<td>Total</td>
<td>18,009,420</td>
<td>= 100%</td>
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</table>
Each Lottery Has Different Characteristics

0 Each lottery has different odds

0 Each lottery has different Jackpot prize amounts

0 Each lottery has different 2nd and 3rd prizes and odds

0 Lotteries are played in foreign countries
Which Lottery Should I Play?

0 Players have a wide choice of US lotteries to play

0 You can play your state Lotto or those in neighboring states

0 Daily pick 3 and 4, or pick 5, 6, 7 lotteries and Keno type games

0 You can play International lotteries

  - Sweden 7/35
  - Australia 6/45 +2B
  - Canada 6/49
  - France 6/49

  - Germany 6/49
  - Italy 5/90
  - UK and Ireland 6/36
  - Austria 6/44
How to Pick the Best Lottery

Lotteries are based on several key factors:

- The odds
- The prize amounts
- Number of tickets sold during the week
- The expected number of winners

Each lottery has different annuity years

Each lottery has different number of tickets per dollar

The taxes are different from state to state
Lotto Game Play Factor Model

0 The comparison of one lotto game to another is complicated, but it can be done.

0 Each prize from the 1st prize (Jackpot) to free ticket has a cost and value or a "risk-reward" ratio.

0 The GPF is the sum of the individual risk-rewards of each prize level

\[
\text{GPF} = \text{PF}_{1\text{st Prize}} + \text{PF}_{2\text{nd Prize}} + \text{PF}_{3\text{rd Prize}}
\]
The Jackpot Play Factor Variables

Jackpot Play Factor (JPF) is a figure of merit, derived from the rules each Lottery has adopted, such as: the odds of the game and payout amounts.

For example, in California's 6/51 game:

The number of balls drawn \( m = 6 \)
The number of balls that can be drawn \( n = 51 \)
The % of independent tickets sold \( in = .5 \)
The number of plays per dollar \( p = 1 \)
The amount of money bet in dollars \( y = 1 \)
The foreign exchange rate \( fe = 1 \)
The % of federal taxes \( ft = .8 \)
The % of state taxes \( st = 1 \)
The number of years of payments \( q = 20 \)
The cost of capital \( coc = .1 \)
A game's progressive annuity \( pa = 0 \)
Amount of money in the Jackpot \( e = 2M \text{ to } 150 \text{ M$} \)
The JPF Equation

The Jackpot Play Factor (JPF) is a figure of merit for a given lottery as viewed by the player.

It is the probability of winning the 1st prize times the net present value of the money divided by the number of people that may also win the jackpot.

Thus, the Jackpot Play Factor can be thought of as a tool for evaluating the merits of any lottery.
Jackpot Play Factor Comparisons

The Jackpot Play Factor integrates all relevant variables to compare and model any lottery with respect to another.

"Winning Through Strategy"
More JPF Comparisons

"Winning Through Strategy"
How Much Money Should I Invest?

- It is an individual choice, however play within your means.
- Many players spend between 20 to 200 dollars per month.
- The more money you bet the better your odds become.
- If you play in a lottery pool you can maximize your chances of winning.

<table>
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<th>% of Income</th>
<th>15M</th>
<th>20M</th>
<th>25M</th>
<th>30M</th>
<th>35M</th>
<th>40M</th>
<th>50M</th>
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<td>2%</td>
<td>25</td>
<td>32</td>
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<td>50</td>
<td>58</td>
<td>64</td>
<td>84</td>
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<tr>
<td>5%</td>
<td>62</td>
<td>83</td>
<td>104</td>
<td>124</td>
<td>146</td>
<td>166</td>
<td>208</td>
<td>248</td>
<td>292</td>
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<tr>
<td>10%</td>
<td>125</td>
<td>166</td>
<td>208</td>
<td>250</td>
<td>292</td>
<td>332</td>
<td>416</td>
<td>500</td>
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<td>15%</td>
<td>187</td>
<td>249</td>
<td>312</td>
<td>374</td>
<td>438</td>
<td>500</td>
<td>624</td>
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## Ticket Cost per Drawing

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<th>140</th>
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<th>240</th>
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<td>15</td>
<td>20</td>
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<td>8</td>
<td>3</td>
<td>5</td>
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<td>18</td>
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<td>12</td>
<td>2</td>
<td>4</td>
<td>5</td>
<td>7</td>
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<td>12</td>
<td>14</td>
<td>17</td>
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<td>10</td>
<td>12</td>
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Note: Fractions have been rounded to next dollar
## Pick 5 And 6 Prize Odds By Game

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<th>Pick 5</th>
<th>5/5</th>
<th>4/5</th>
<th>3/5</th>
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<td>2/5</td>
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<tr>
<td>5/35</td>
<td>324,632</td>
<td>2,164</td>
<td>75</td>
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<td>5/39</td>
<td>575,757</td>
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<td>658,008</td>
<td>3,760</td>
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<td>5/52</td>
<td>2,598,960</td>
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<td>6/34</td>
<td>672,452</td>
<td>4003</td>
<td>119</td>
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<tr>
<td>6/36</td>
<td>1,947,792</td>
<td>10,822</td>
<td>299</td>
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<tr>
<td>6/39</td>
<td>3,262,623</td>
<td>543,771</td>
<td>16,993</td>
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<tr>
<td>6/40</td>
<td>3,838,380</td>
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<td>456</td>
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<td>6/42</td>
<td>5,245,786</td>
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<td>6/44</td>
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<td>6/45</td>
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<td>6/46</td>
<td>9,366,819</td>
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<td>6/47</td>
<td>13,983,816</td>
<td>2,330,636</td>
<td>55,491</td>
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*Winning Through Strategy*
### Odds Chart Based on Tickets Purchased

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<th>Plays/$$</th>
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<tr>
<td>5/30</td>
<td>1</td>
<td>14250</td>
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<tr>
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<td>32626</td>
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"Winning Through Strategy"
Lotto Number Selection Methods

- Quick Pick
- Birthday System
- Unpopular Numbers
- Hot/Cold Numbers
- Astrology/Numerology
- Precognition (PSI)
- Combination Analysis
- Best Bets
# Lotto Number Selection Evaluation Criteria

<table>
<thead>
<tr>
<th>Importance</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>High</td>
<td>Number distribution quality</td>
</tr>
<tr>
<td>High</td>
<td>Prize share maximization.....multiple wins, not sharing prize</td>
</tr>
<tr>
<td>Med</td>
<td>Cost to implement....computer software,900# calls</td>
</tr>
<tr>
<td>Med</td>
<td>Ease of Use</td>
</tr>
<tr>
<td>Med</td>
<td>Emotional pleasure</td>
</tr>
<tr>
<td>Med</td>
<td>Scientifically supported methodology</td>
</tr>
<tr>
<td>Med</td>
<td>Potential for an exact hit</td>
</tr>
<tr>
<td>Low</td>
<td>Randomness</td>
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"Winning Through Strategy"
Ranking of Lotto Selection Methods

0 After rating each method on a scale of 1-5 and multiplying the score times the weighting factor, the following results emerge:

- Max 90pts

0 Best to Worst

<table>
<thead>
<tr>
<th>Method</th>
<th>Score</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Combination Analysis</td>
<td>68</td>
<td>75%</td>
</tr>
<tr>
<td>Precognition (PSI)</td>
<td>60</td>
<td>66%</td>
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<td>Unpopular numbers</td>
<td>58</td>
<td>64%</td>
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<tr>
<td>Best Bets</td>
<td>54</td>
<td>60%</td>
</tr>
<tr>
<td>Hot/Cold numbers</td>
<td>52</td>
<td>57%</td>
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<td>Quick Pick</td>
<td>47</td>
<td>52%</td>
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<tr>
<td>Birthday System</td>
<td>45</td>
<td>50%</td>
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<tr>
<td>Astrology/Numerology</td>
<td>43</td>
<td>43%</td>
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Lotto Computer Software Tools

0 Mac Lotto -- Wheeling, random number generation, unpopular numbers, $99.00 plus tax, from Math Labs, 18 Main St Concord, MA

0 Versa-Bet -- Complete draw history, Hot/Cold, Best Bets, supports daily 3/4 and pick 5,6,7 games, wheeling is available, $89.95 from JPM Computer, P.O. Box 30742, Portland OR 97230


0 Lottery Tracker and Wheeler -- Includes wheeling systems, numerical analysis, graphics, stores winning numbers, $49.95 from Entertainment On-Line, Inc., Westborough MA 01581

0 Note: Write for information and ask about special sales.

"Winning Through Strategy"
What Type of Systems are Available?

0 Lottery systems come in many different forms depending on your prize goals, cash available and how and why you select each number.

0 Wheeling systems

0 Jackpot traps, which is a different form of wheeling system

0 Lottery pools

0 Technical analysis using hot or cold numbers and other techniques

0 Game Play Factor (GPF) comparisons can choose the best lottery

0 Unusual number selection methods
Do Strategies and Systems Make a Difference?

0 Lotto is more complicated than a quick pick.

0 Over 1,300 of the 120,000 winners of 5/6 or 6/6 in all of the California games have won two or more prizes in separate drawings.  
  -Assuming a $28 investment the odds are 1 in 2,907, yet the winners are performing at a 1 in 100 level some 29 times better than chance.

0 There are back to back winners and multiple jackpot winners that use a strategy.

0 With a system you can win more often with less "luck"
Characteristics of Successful Lotto Players

0 They are lucky in varying degrees

0 Consistent and patient regular players

0 Many use a system or strategy especially for 2nd and 3rd prizes

0 Winners have a financial commitment and discipline

0 Fully one third have a religious and psychic experience before winning
What Is Wheeling?

0 Wheeling is a technique to maximize the number of second and third prizes that are won based on a series of bets.

0 For example, if you know what the winning numbers will be, buy a $1 ticket. However, if you think the winning numbers are within a group of 10 numbers, then you use a wheel to capture the winning combination.

0 A full wheel is the complete set of combinations for a given number. For example:

- 10 number full wheel costs $210
- 12 number full wheel costs $924
- 14 number full wheel costs $3,003

0 If all six winning numbers fall within the 10 numbers selected and wheeled, then you win:

- 1 grand prize 6/6
- 24 second prizes 5/6
- 90 third prizes 4/6

"Winning Through Strategy"
Are There Other Types of Wheeling Systems?

0 Key number wheels assume that you think you know what one or more of the winning numbers will be.

0 Abbreviated wheels have different win guarantees and lower investment $

0 Wheels that combine multiple pairs of numbers (any two numbers)

0 Positional wheels focus on the fact that winning numbers fall into specific ranges and patterns

0 Groups (2 to 6) of numbers are yet another variation of wheeling systems

0 Wheels that combine key numbers, multiple pairs, and multiple groups

0 Look at the table of characteristics of abbreviated win-guaranteed wheels
## Win Guarantees For Wheels

<table>
<thead>
<tr>
<th>Total #'s</th>
<th>6/6</th>
<th>5/6</th>
<th>4/6</th>
<th>5/5</th>
<th>4/5</th>
<th>3/3</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>28</td>
<td>4</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>210</td>
<td>16</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>12</td>
<td>924</td>
<td>68</td>
<td>14</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

# of Combination s required

- 56
- 14
- 252
- 6
- 17
- 14
- 792
- 9
- 31

"Winning Through Strategy"
Should I Scratch or Play Lotto?

- Scratchers provide the WORST odds of winning over $10.
- Scratchers usually provide the BEST odds of winning $2 or $10.
- Scratchers are a passive, throw-a-way investment relying 100% on luck.
- Scratchers require you to redeem the ticket at the location purchased or mailed to the state lottery commission, 2-3 weeks to redeem.
- Scratchers make convenient prizes for group organizations.

"Winning Through Strategy"
CA 5/39 Observations And Rules

Observation: 97% of the winning numbers have a mixture of odd and even numbers, distributed 3/2 or 4/1

*Rule:* Eliminate bets with all odd or even numbers.

Observation: 83% of winning numbers have either no end digits in common or 2 end digits in common.

*Rule:* Play only combinations with either no end digits or two end digits in common

Observation: 74% of the winning drawings include one or more numbers over 31.

*Rule:* Avoid the birthday systems that use numbers 1 to 31 exclusively

Observation: 69% of the winning drawings have 1 or 2 numbers from the previous 2 drawings.

*Rule:* Use no more than two previous numbers in any single combination

Observation: 88% of the time a winning number will not repeat 3 or more drawings

*Rule:* Do not bet combinations that repeat a winning number for a third drawing in a row

"Winning Through Strategy"
CA 6/51 Lotto Observations and Rules

Observation: 77% of the winning numbers have a mixture of odd and even numbers, distributed 3/3 or 2/4 or 4/2

Rule: Eliminate bets that have too many odd or even numbers.

Observation: 87% of winning numbers have either no end digits in common, 2 end digits in common or no more than two occurrences of 2 end digits in common.

Rule: Play only combinations with either no end digits, two end digits or two sets of two end digits in common

Observation: There is a large difference in the JPF of lotteries.

Rule: Play only the lotteries that offer the highest risk/reward ratio or Jackpot Play Factor

Observation: 70% of all winning combinations have a sum of numbers that fall within a specific range. See Advanced Seminar

Rule: Do not bet numbers that are outside of the sum window, either too low a sum or too high
CA 6/51 Observations and Rules

Observation: 93% of the winning drawings include one or more numbers over 31.

*Rule:* Avoid the birthday systems that use numbers 1 to 31 exclusively

Observation: 65% of the winning drawings have 1 or 2 numbers from the previous 2 drawings.

*Rule:* Use no more than two previous numbers in any single combination

Observation: 85% of the time a winning number will not repeat 3 or more drawings

*Rule:* Do not bet combinations that repeat a winning number for a third drawing in a row

Observation: 90% of winning combinations will have no pairs, or only one pair of numbers

*Rule:* Eliminate all combinations with more than one pair of numbers

"Winning Through Strategy"
What Are The Benefits of Pools?

0 Pools will increase the odds of winning all types of prizes.

0 Pools can leverage the best systems and knowledge easily because more money is available.

0 Avoid pools that have a high overhead, like for every $1 bet you pay $2.

0 Pools simplify the process of playing lotto.

0 Reduce overall costs for individual players
   - less time and hassle   - better odds   - more wins

0 Insulates winner from state authority's computer tracing.
## Summary: How To Improve Your Odds

<table>
<thead>
<tr>
<th>Method</th>
<th>Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Play more dollars</td>
<td>Divides odds</td>
</tr>
<tr>
<td>2) Play the best game in the country at the moment</td>
<td>1 to 30 times</td>
</tr>
<tr>
<td>3) Split with as few people as possible, bet timing is key.</td>
<td>1 to 5 times</td>
</tr>
<tr>
<td>4) Use a wheeling system to pick up more second and third prizes</td>
<td>1 to 3 times</td>
</tr>
<tr>
<td>5) Eliminate loosing bets based on observations and rules</td>
<td>Saves up to 30%</td>
</tr>
<tr>
<td>6) Do not buy scratchers, convert $$ to Lotto</td>
<td>1 for 1 Savings</td>
</tr>
<tr>
<td>7) Convert Quick Pick dollars to Lotto</td>
<td>1 for 1 Savings</td>
</tr>
</tbody>
</table>