Lora Milam

Western Govenors University

D214 Data Analytics Graduate Capstone

28 November 2023

D214 Performance Assessment Task 2

**1 Introduction**

Lora Milam Masters Data Analytics (11/28/2023) Program Mentor:d214@wgu.edu

**1.1 Link to Dashboard**

The dashboard for this Performance Assessment can be found at:

**1.2 Research Question**

The identified research question aims to determine the Pokémon card with the highest return on investment through comprehensive data analysis. The justification for this research question stems from the complexity of the Pokémon Trading Card Game (TCG) market, which is influenced by numerous factors. The context involves a collectible card game where the market dynamics are intricate, and informed investment decisions can significantly benefit from data-driven insights.

**1.3 Justification**

The Pokémon TCG market is multifaceted and subject to various influences, making it challenging for investors to pinpoint cards with the highest return on investment. The justification lies in the need for a systematic approach to navigate this complexity. Data analysis is chosen as the methodology because it offers a comprehensive understanding of historical card prices and fluctuations, enabling the identification of cards with consistent value growth.

**1.4 Context**

In the context of Pokémon TCG, the market is influenced by factors such as card rarity, type, set, condition, and more. Understanding historical price trends and identifying patterns in card attributes can provide valuable insights for investors. The market is dynamic, and data analysis becomes essential to unravel hidden patterns, guide portfolio diversification, and inform buying and selling decisions.

**1.5 Hypothesis**

The hypothesis is that through meticulous data analysis, it is possible to identify Pokémon cards that demonstrate consistent value appreciation over time. The hypothesis further suggests that by understanding patterns related to card attributes and market performance, investors can build diversified portfolios, reduce risk, and strategically time their buying and selling decisions. In essence, the hypothesis posits that a data-driven approach can empower investors to navigate the challenges of the Pokémon TCG market and uncover cards with the potential for the highest returns on investment.

**2 Data Collection**

**2.1 Relevant Data Collected**

The data collection process aimed to compile information on Pokemon TCG pull rates, hits, single product prices, and sealed product prices from various sources. The data was sourced from platforms such as Bulbagarden, Collectorcache, PriceCharting, YouTube, Reddit, TrollandToad, Eliteforum, Pokemon.com, Google Drive, Facebook, Digitaltq, Dropbox, Codedyellow, Infinite TCGPlayer, Flipsidegaming, and Instagram. The focus was on English sets, with an emphasis on pull rates for specific Pokemon TCG cards.

For pull rates, manual surveys were conducted when pre-prepared data for certain English sets was not readily available. Additionally, the plan included connecting to market price platforms like TCGPlayer or PriceChart to streamline data integration for single and sealed product prices.

**2.2 Advantage of the Data-Gathering Methodology**

The advantage of this approach lies in the diversity of data sources. By collecting information from a wide array of platforms, a comprehensive and nuanced dataset was created. This ensures a more accurate representation of pull rates, hits, and pricing information, capturing a broader range of market dynamics.

**2.3 Disadvantage of the Data-Gathering Methodology**

One disadvantage was the initial reliance on automated data retrieval from market price platforms. The coding platform, Anaconda, encountered issues accessing this data. This led to the need for additional manual data collection, which can be time-consuming and potentially introduces human error.

**2.4 Overcoming Challenges**

To address the challenges faced during data collection, a manual survey was conducted for pull rates where pre-prepared data was unavailable. For the issues with automated data retrieval from market price platforms, the fallback was a manual collection process. This involved extracting data directly from various online sources and manually calculating the pull rates, ensuring that the data remained accurate, overcoming the challenges posed by the limitations of the initial automated data retrieval plan.

While the data collection process faced challenges, the use of diverse sources and adaptability in the methodology allowed for a robust dataset to be compiled, providing valuable insights into Pokemon TCG pull rates and pricing dynamics.

**3 Data Extraction and Preparation**

C.  Describe your data-extraction and -preparation process and provide screenshots to illustrate *each* step. Explain the tools and techniques you used for data extraction and data preparation, including how these tools and techniques were used on the data. Justify why you used these particular tools and techniques, including one advantage and one disadvantage when they are used with your data-extraction and -preparation methods.

* Include preparation for future ananlysis
* Anaconda, python, any libraries

**4 Analysis**

**Analysis**

D.  Report on your data-analysis process by describing the analysis technique(s) you used to appropriately analyze the data. Include the calculations you performed and their outputs. Justify how you selected the analysis technique(s) you used, including one advantage and one disadvantage of these technique(s).

- include analysis for predictions

- include tableau analysis

The choice of Tableau as a business intelligence tool is justified due to its ease of use, strong data visualization capabilities, data integration support, scalability, advanced analytics features, supportive community, security and compliance standards, regular updates, and cost-effectiveness. These attributes make Tableau a valuable asset for businesses seeking to harness the power of data for informed decision-making.

**5 Data Summary and Implications**

E.  Summarize the implications of your data analysis by discussing the results of your data analysis in the context of the research question, including one limitation of your analysis. Within the context of your research question, recommend a course of action based on your results. Then propose **two** directions or approaches for future study of the data set.

**6 Supporting Documentation**

**6.1 Sources**

Bulbagarden. (2013). *List of Pokémon Trading Card Game expansions - Bulbapedia, the community-driven Pokémon encyclopedia*. Bulbagarden.net. https://bulbapedia.bulbagarden.net/wiki/List\_of\_Pok%C3%A9mon\_Trading\_Card\_Game\_expansions

LLC, C. C. (n.d.). *Collector’s Cache LLC*. Collector’s Cache LLC. Retrieved November 28, 2023, from https://www.collectorscache.com/

PriceCharting. (n.d.). *Pokemon Card Prices | Free PSA & Ungraded Price Guide*. PriceCharting. https://www.pricecharting.com/category/pokemon-cards

*Pokemon Sword & Shield Rebel Clash Booster Box Opening #PokemonUnboxing #PokemonOpening #RebelClash*. (n.d.). Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=y5PWStQCb78

PokemonTCG. (n.d.). *Reddit - Dive into anything*. Www.reddit.com. Retrieved November 28, 2023, from https://www.reddit.com/media?url=https%3A%2F%2Fi.redd.it%2Fr811az04nzq41.jpg

Troll and Toad. (2019). *Troll And Toad | Online store for Magic: the Gathering, YuGiOh, Pokemon, Cards, Singles, Miniatures & More*. TrollAndToad. https://www.trollandtoad.com/

Luxury Ball Collectibles. (216, Jan 4). *Phantom Forces #1 - Daily Booster Box Opening #4 - Pokemon TCG*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=NEzT8wsPcRE

Skul. (2013, Nov 8). *Opening a Legendary Treasures Booster Box*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=LFHNInKdCdQ

UnlistedLeaf. (2013, November 14). *Best Legendary Treasures Booster Box Opening Ever! Part 1 (Many FA’s)*. Www.youtube.com. https://www.youtube.com/watch?v=RcSaPKhTRZk

PrimetimePokemon. (2013, Nov 17). *Pokemon Legendary Treasures Booster Box Opening Pt. 1 (Best Pulls Ever!)*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=mu8h4xkntQc

PrimetimePokemon. (2013, Nov 17). *Pokemon Legendary Treasures Booster Box Opening Pt. 2*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=Gqr8R6P5jbw&t=0s

sbskins. (2014, August 15). *I opened a Pokemon XY Furious Fists booster box case, 6 booster boxes. This is what I got!* https://www.reddit.com/r/pokemon/comments/2dnbp5/i\_opened\_a\_pokemon\_xy\_furious\_fists\_booster\_box/

PrimetimePokemon. (2014, Sep 7). *Opening a Legendary Treasures Booster Box Pt. 1*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=TbI1I6YW\_yk

PrimetimePokemon. (2014, Sep 7). *Opening a Legendary Treasures Booster Box Pt. 2*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=4nSZruL8bFk&t=0s

ThePokeCapital. (2014, Oct 15). *Pokemon XY Furious Fists Booster Box Opening w/ 36 Packs*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=Rg0MmspYCYU

ThePokeCapital. (2014, Nov 1). *Pokemon XY Phantom Forces Booster Box Opening w/ 36 Packs*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=Hh2qTX2eswE

Skul. (2014, Nov 3). *Opening a Phantom Forces Booster Box*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=IjX8ZFIYS3k

PrimetimePokemon. (2014, Nov 10). *Pokemon Phantom Forces Booster Box Opening Pt. 1*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=j\_Dp\_DIXtrE

PrimetimePokemon. (2014, Nov 10). *Pokemon Phantom Forces Booster Box Opening Pt. 2*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=oyFFzMgqbDo

ThePokeCapital. (2015, Feb 3). *Pokemon XY Primal Clash Booster Case Opening (6 Boxes!)*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=AgXlISlrOew

PrimetimePokemon. (2015, Feb 8). *Pokemon Primal Clash Booster Box Opening Pt. 1*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=DDN7iN6SbHk

PrimetimePokemon. (2015, Feb 8). *Pokemon Primal Clash Booster Box Opening Pt. 2*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=ynEzpxSR7k4

ThePokeCapital. (2015, Feb 18). *Pokemon Furious Fists Booster Box Opening*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=1MJKcSNa36I

ThePokeCapital. (2015, Jun 20). *Pokemon Cards Phantom Forces Booster Box Case Opening*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=hvodj8QPaqQ

PrimetimePokemon. (2015, Jul 12). *Phantom Forces Pokemon Booster Box Opening Pt. 1*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=c8U35QXTPCI

PrimetimePokemon. (2015, Jul 12). *Phantom Forces Pokemon Booster Box Opening Pt. 2*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=GXMDGF3TFHY

ThePokeCapital. (2015, Jul 15). *Pokemon Cards Booster Box Opening Marathon Day 2 - XY Furious Fists Box*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=08SXhQukLnI

ThePokeCapital. (2015, Jul 18). *Pokemon Cards - Booster Box Opening Marathon Day 5 - Legendary Treasures Box*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=VM99t1JC5FQ&list=PL5gkzAU0e5OLBEtHVVoi1Uj7k-2ZP28vd&index=5

ThePokeCapital. (2015, Jul 24). *Pokemon Cards Booster Box Opening Marathon XY Furious Fists Box - Day 11*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=qPa6VH1JTo8

ThePokeCapital. (2015, Jul 28). *Pokemon Cards Booster Box Opening Marathon Legendary Treasures Case - Day 15*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=Z4EepbPdm6Y&list=PL5gkzAU0e5OLBEtHVVoi1Uj7k-2ZP28vd&index=15

ThePokeCapital. (2015, Jul 31). *Pokemon Cards Booster Box Opening Marathon XY Furious Fists Box - Day 18*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=9GlTC7DDL2A

PrimetimePokemon. (2015, Sep 3). *Opening a Phantom Forces Booster Box Pt. 2*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=qyAC5-bVpQ4

PrimetimePokemon. (2015, Sep 13). *Opening a Phantom Forces Booster Box Pt. 1*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=Gh82yMXZ7oE

Luxury Ball Collectibles. (2016, Jan 7). *Primal Clash #1 - Daily Booster Box Opening #7 - Pokemon TCG*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=iXdUrt-FzqQ

Luxury Ball Collectibles. (2016, Jan 11). *Primal Clash #2 - Daily Booster Box Opening - Pokemon TCG*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=zDa46uhdVoE

Luxury Ball Collectibles. (2016, Jan 13). *Phantom Forces #2 - Daily Booster Box Opening # - Pokemon TCG*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=hZOF8-dAflk

Luxury Ball Collectibles. (2016, Jan 18). *Turbo Opening - Furious Fists #1 - Pokemon Booster Box Unboxing*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=sjHQe8Lxte0

Luxury Ball Collectibles. (2016, Jan 19). *Phantom Forces #3 - Daily Booster Box Opening - Pokemon TCG*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=r\_ThpO-iY6U

Luxury Ball Collectibles. (2016, Jan 21). *Primal Clash #3 - Daily Booster Box Opening - Pokemon TCG*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=3n4PkRQYxUw

Luxury Ball Collectibles. (2016, Feb 7). *Phantom Forces #4 - Daily Booster Box Opening # - Pokemon TCG*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=7JBlJiK\_FRE

Luxury Ball Collectibles. (2016, Feb 13). *Phantom Forces #5 - Daily Booster Box Opening # - Pokemon TCG*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=58n-cxAJ8Yw

Spielmans Collectibles. (2016, May 29). *Pull Rates for EX Full Arts Secret Rares and Breaks for Pokemon XY Fates Collide Set*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=uWT\_i-jaK2Q

PrimetimePokemon. (2016, Jul 31). *Pokemon Legendary Treasures Booster Box Opening Pt. 1*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=nWtbraDGs7E

Leonhart. (2016, September 24). *HUNTING FOR GOLD! - BEST Legendary Treasures Booster BOX Opening!* Www.youtube.com. https://www.youtube.com/watch?v=QGQoA3Lqfrw

Luxury Ball Collectibles. (2016, Oct 4). *Opening a Generations “booster box” - 36 packs! Pokemon TCG unboxing*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=ZIjR24ZS1bc

HollowZard. (2016, October 28). *Pulls from Evolutions Booster Box*. https://www.reddit.com/r/pkmntcgcollections/comments/59x2il/pulls\_from\_evolutions\_booster\_box/

Kibamaru. (2016, November 4). *My Evolutions booster box pulls.* https://www.reddit.com/r/pkmntcgcollections/comments/5b2gst/my\_evolutions\_booster\_box\_pulls/

Luxury Ball Collectibles. (2017, Jan 12). *Opening a Generations “booster box” #2 - 36 packs! Pokemon TCG unboxing*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=Ecjm8145NmE

Poke Rev. (2017, June 7). *Ancient Pokemon Cards Opening! (Entire Case Of Primal Clash)*. Www.youtube.com. https://www.youtube.com/watch?v=5VwuZ1PTZ8w&t=5s

Luxury Ball Collectibles. (2017, Jun 13). *Opening Every Pokemon Box: XY Furious Fists*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=CshpA3CyK1k

Luxury Call Collections. (2017, Aug 20). *Opening Pokemon - 1,000 Booster Packs of Breakpoint!* Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=yI\_qsEo\_f2s

PrimetimePokemon. (2017, Aug 27). *Phantom Forces Booster Box Opening Pt. 1*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=XizNFFlO93Q

PrimetimePokemon. (2017, Aug 27). *Phantom Forces Booster Box Opening Pt. 2*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=LA3xRzdb1og

PrimetimePokemon. (2018, Jul 8). *Phantom Forces Booster Box Opening Pt. 1*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=6Tc79weXSzw

PrimetimePokemon. (2018, Jul 8). *Phantom Forces Booster Box Opening Pt. 2*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=tdZiXtnWVX4

Kalatzeus. (2018, December 22). *My pulls from a Pokemon TCG: Evolutions Booster Box.* https://www.reddit.com/r/PokemonTCG/comments/a8oh0f/my\_pulls\_from\_a\_pokemon\_tcg\_evolutions\_booster\_box/

TheGameCapital. (2019, Apr 28). *UNBROKEN BONDS 12 Booster CASE Opening Recap of Pokemon Cards with Ratios*. (n.d.). Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=CG6M6CiRxWs

heffalumpish. (2019, September 13). *Calculated average HF pull rates - how does this compare to other series?* https://www.reddit.com/r/pkmntcgcollections/comments/d3qfxc/calculated\_average\_hf\_pull\_rates\_how\_does\_this/

TheGameCapital. (2019, October 28). *COSMIC ECLIPSE 10 Booster CASE Opening RECAP of Pokemon Cards - Pull Ratios!* Www.youtube.com. https://www.youtube.com/watch?v=wBc8qDcb2Gg

Burpies. (2019, Dec 22). *Pull Rates in Modern Sets*. Elite Fourum. https://www.elitefourum.com/t/pull-rates-in-modern-sets/25220

TheGameCapital. (2020, Feb 2). *SWORD & SHIELD 10 Booster CASE Opening RECAP of Pokemon Cards - Pull Ratios!*, Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=wrJYolfDDxg

brandop2188. (2020, May 2). *Pokemon Rebel Clash pull rates.* https://www.reddit.com/r/PokemonTCG/comments/gcfiio/pokemon\_rebel\_clash\_pull\_rates/

king-\_-james\_856. (2020, May 2). *Rebel clash booster box pulls*. https://www.reddit.com/r/PokemonTCG/comments/gcc4b0/rebel\_clash\_booster\_box\_pulls/

*Any idea what pull rates for Rebel Clash are?* (2020, May 4). Reddit. https://www.reddit.com/r/pkmntcg/comments/gdh1x8/any\_idea\_what\_pull\_rates\_for\_rebel\_clash\_are/

Poke Rev. (2020, May 21). *The ONLY SILVER Pokemon Card EVER MADE! (Phantom Forces Booster Box Opening)*. (n.d.). Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=DNw\_mN86CQo

tanker1992. (2020, May 25). *Pulls from an XY evolutions booster box. How did I do? I’m pretty happy.* https://www.reddit.com/r/PokemonTCG/comments/gqdltp/pulls\_from\_an\_xy\_evolutions\_booster\_box\_how\_did\_i/

letsgetthisrice\_. (2020, June 9). *my evolutions booster box pulls! (my first ever booster box opening, i genuinely can’t tell if it’s a good box, it looks pretty average for evolutions [still super grateful and happy though] compared to what other people have pulled)*. https://www.reddit.com/r/PokemonTCG/comments/gzs6i4/my\_evolutions\_booster\_box\_pulls\_my\_first\_ever/

prettymuchbangtan. (2020, July 1). *from my XY EVOLUTIONS booster box. Not too happy honestly but that’s because my Japanese pulls were 100x better, oh well!* https://www.reddit.com/r/PokemonTCG/comments/hjbxkp/from\_my\_xy\_evolutions\_booster\_box\_not\_too\_happy/

Poke Rev. (2020, Aug 20). *SEARCHING FOR 1ST EVER GOLD POKEMON CARDS! (Very Rare)*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=2JZX2zlDQCw

Poke Rev. (2020, Aug 30). *The Ultimate Charizard Hunt! - Opening 3,000 Pokemon Card Packs*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=rU-QRj87se4

-LazyTanuki-. (2020, September 1). *Pull Rates from 200 Darkness Ablaze / Clash of Rebels Blisters*. Reddit. https://www.reddit.com/r/PokemonTCG/comments/ikrgz3/pull\_rates\_from\_200\_darkness\_ablaze\_clash\_of/

iLoveKittenz88. (2020, September 1). *What are the pull rates in rebel clash and darkness ablaze? Just opened 20 packs and didnt get ANYTHING...* https://www.reddit.com/r/PokemonTCG/comments/ikh4zk/what\_are\_the\_pull\_rates\_in\_rebel\_clash\_and/

Anwarthinks, (2021, Jan 28). *Pokémon TCG expansions*. Www.pokemon.com. Retrieved November 28, 2023, from https://www.pokemon.com/us/pokemon-tcg/trading-card-expansions/

He, Victor. (2021, Feb 7). *Shining Fates Pull Rates.xlsx*. Google Docs. Retrieved November 28, 2023, from https://drive.google.com/file/d/14jK-21AQKZo4LlrgCINlnz-lhstMjXyU/view

Poke Rev. (2021, Feb 14). *The Biggest Pokemon Cards Opening Of All Time | 10,000 Packs*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=BKsuo9WLZko

breakyourteethnow. (2021, February 20). *Shining Fates Pull Rates After Opening 1000+ Packs*. https://www.reddit.com/r/PokeInvesting/comments/lojtez/shining\_fates\_pull\_rates\_after\_opening\_1000\_packs/

NerdyNinetales. (2021, March 15). *Battle Styles Pull Rates - Will It Still Be Good After Vivid Voltage?* Www.youtube.com. https://www.youtube.com/watch?v=0nQC-Kjy6og

The Pokelab. (2021, March 18). *The Pokélab - 𝗣𝘂𝗹𝗹 𝗥𝗮𝘁𝗲 𝘛𝘩𝘦 𝘧𝘪𝘳𝘴𝘵 𝘥𝘢𝘵𝘢 𝘰𝘧 𝘵𝘩𝘦 𝘣𝘢𝘵𝘵𝘭𝘦 𝘴𝘵𝘺𝘭𝘦𝘴 𝘱𝘶𝘭𝘭 𝘳𝘢𝘵𝘦 𝘪𝘴 𝘰𝘶𝘵! 𝘛𝘩𝘪𝘴 𝘥𝘢𝘵𝘢 𝘪𝘴 𝘣𝘢𝘴𝘦𝘥 𝘰𝘯 1405 𝘣𝘢𝘵𝘵𝘭𝘦 𝘴𝘵𝘺𝘭𝘦𝘴 𝘣𝘰𝘰𝘴𝘵𝘦𝘳 𝘱𝘢𝘤𝘬𝘴! 𝘔𝘰𝘳𝘦 𝘥𝘢𝘵𝘢 𝘪𝘴 𝘤𝘰𝘮𝘪𝘯𝘨 𝘴𝘰𝘰𝘯 𝘢𝘯𝘥 𝘢𝘯 𝘶𝘱𝘥𝘢𝘵𝘦 𝘸𝘪𝘭𝘭 𝘧𝘰𝘭𝘭𝘰𝘸! (Source: @cardzardgaming) #pokemon #pokemontcg #tcg #battlestyles #thepokelabnl #pullrate #nintendo | Facebook*. Www.facebook.com. Retrieved November 28, 2023, from https://www.facebook.com/thepokelab.nl/photos/a.5020195048051530/5225643414173358/?type=3

tallgrasscards. (2021, June 17). *Chilling Reign Pull Rates*. https://www.reddit.com/r/PokeInvesting/comments/o210mm/chilling\_reign\_pull\_rates/

Poke Rev. (2021, Jul 25). *Opening Pokemon Cards, But It’s a Mountain of Evolutions!*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=0TI5cJH1jVI&t=41s

markzeej. (2021, August 24). *Evolving Skies Pull Data (from >10.000 packs opened)*. https://www.reddit.com/r/PokemonTCG/comments/paitho/evolving\_skies\_pull\_data\_from\_10000\_packs\_opened/

NeoNostalgia123. (2021, September 19). *Evolving Skies Pull Rates - Statistical Expectations and Food for Thought*. https://www.reddit.com/r/PokemonTCG/comments/prb2p0/evolving\_skies\_pull\_rates\_statistical/

gltch\_\_. (2021, October 9). *Celebrations Pull Rates (from 778 Packs)*. https://www.reddit.com/r/PokemonTCG/comments/q4ebn8/celebrations\_pull\_rates\_from\_778\_packs/

IslandGrown Pokemon. (2021, Dec 22). *World’s MOST INSANE Legendary Treasures Box Opening?!*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=\_A1demH54-k

DigitalTQ. (2022, Jan 7). *Vivid Voltage Booster Pull Rates - Pokemon TCG*. DigitalTQ. Retrieved November 28, 2023, from https://www.digitaltq.com/vivid-voltage-booster-pull-rates-pokemon-tcg

DigitalTQ. (2022, February 24). *Brilliant Stars Pull Rates - Pokemon TCG*. DigitalTQ. https://www.digitaltq.com/brilliant-stars-pull-rates-pokemon-tcg

Poke Rev. (2022, Mar 23). *This Was a Disaster of an Opening...* (n.d.). Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=XLiZpn2dmLM

Vito. (2022, Apr 29). *Pokemon Collection Tracker Ver 1.2.xlsm*. Dropbox. Retrieved November 28, 2023, from https://www.dropbox.com/scl/fi/5ji1k3jovicqdr31pq618/Pokemon-Collection-Tracker-Ver-1.2.xlsm?dl=0&rlkey=qhddbft6d7euzwq6vmau2lck1

Yasmin, Heather. (2022, May 31). *What is the Astral Radiance Pull Rate? - Coded Yellow*. Www.codedyellow.com. https://www.codedyellow.com/what-is-the-astral-radiance-pull-rate/

PokiChloe. (2022, Aug 27). *Opening Legendary Treasures 10 Year Old Pokemon Booster Box + Early Lost Origins Opening!!*. Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=BOy3ZcBb1aA

Day, Peter. (2022, Nov 13). *Pokemon TCG: Silver Tempest Pull Rates*. TCGplayer Infinite. Retrieved November 28, 2023, from https://infinite.tcgplayer.com/article/Pok%C3%A9mon-TCG-Silver-Tempest-Pull-Rates/6490d591-e582-4930-8446-00e190876d30/

Invest Daily. (2022, December 13). *I OPENED A $2,000 Pokemon XY Phantom Forces Box Searching for the RAREST SILVER CARD in the WORLD!!!* Www.youtube.com. https://www.youtube.com/watch?v=sWNh-7TcTsQ

Luxury Ball Collectibles. (2016a, January 5). *Furious Fists #1 - Daily Booster Box Opening #5 - Pokemon TCG*. Www.youtube.com. https://www.youtube.com/watch?v=Rfbno0fnpsM

Luxury Ball Collectibles. (2016b, January 17). *Furious Fists #2 - Daily Booster Box Opening - Pokemon TCG*. Www.youtube.com. https://www.youtube.com/watch?v=Bv1w1ytfnO8

Day, Peter. (2023, Jan 20). *Pokemon TCG: Crown Zenith Pull Rates.* TCGplayer Infinite. Retrieved November 28, 2023, from https://infinite.tcgplayer.com/article/Pok%C3%A9mon-TCG-Crown-Zenith-Pull-Rates/56af3032-cb34-4da1-92fb-9cf206d10c0f/

Luxury Ball Collectibles. (2017a, February 2). *1,000 Roaring Skies Booster Packs!* Www.youtube.com. https://www.youtube.com/watch?v=wZcVHGgQDQA

Day, Peter. (2023, Feb 7). *Pokemon Celebrations Prices, 1 Month Later*. TCGplayer Infinite. Retrieved November 28, 2023, from https://infinite.tcgplayer.com/article/Pok%C3%A9mon-Celebrations-Prices-1-Month-Later/68df0b67-bdc3-4dd0-8e01-1057f19a0b0d/

Day, Peter. (2023, Feb 7). *How to Tell the Rarity of a Pokemon Card.* TCGplayer Infinite. Retrieved November 28, 2023, from https://infinite.tcgplayer.com/article/How-to-Tell-the-Rarity-of-a-Pok%C3%A9mon-Card/3bc6c211-f4ce-4c4d-b823-74f3790ebaeb/

Day, Peter. (2023, Feb 7). *Pokemon TCG: Astral Radiance Pull Rates.* TCGplayer Infinite. Retrieved November 28, 2023, from https://infinite.tcgplayer.com/article/Pok%C3%A9mon-TCG-Astral-Radiance-Pull-Rates/10da749f-9c8b-45c0-b80a-dbd86ca5dcde/

Day, Peter. (2023, Feb 7). *Pokemon TCG: Lost Origin Pull Rates.* TCGplayer Infinite. Retrieved November 28, 2023, from https://infinite.tcgplayer.com/article/Pok%C3%A9mon-TCG-Lost-Origin-Pull-Rates/ba20ac4d-9448-45ce-b919-d856d107c744/

Day, Peter. (2023, Feb 7). *Pokemon TCG: Lost Origin Pull Rates*. TCGplayer Infinite. https://infinite.tcgplayer.com/article/Pok%C3%A9mon-TCG-Lost-Origin-Pull-Rates/ba20ac4d-9448-45ce-b919-d856d107c744/

Luxury Ball Collectibles. (2017b, February 10). *$3,000+ Pokemon Generations Opening! 500 Generation Booster Packs Unboxing! - pokemon tcg*. Www.youtube.com. https://www.youtube.com/watch?v=UauYHqu\_BtM

Sturzflugbombardieru. (2023, Feb 18). *The English Pokémon card rarity guide*. Elite Fourum. https://www.elitefourum.com/t/the-english-pokemon-card-rarity-guide/39762/118?page=3

Poke Rev. (2023a, March 5). *I Opened The WORST Pokemon Set...BUT It’s Actually GOOD?* Www.youtube.com. https://www.youtube.com/watch?v=YnnPoMtdV5Y

cardzardgaming. (2021a, March 17). *Battle Styles Pull Rate Data (from 1405 packs)*. https://www.reddit.com/r/PokemonTCG/comments/m6zx5c/battle\_styles\_pull\_rate\_data\_from\_1405\_packs/

Poke Rev. (2023, Mar 21). *This Pokemon Box Has HUNDREDS of Rare Cards Inside! ($3,000)*. (n.d.). Www.youtube.com. Retrieved November 28, 2023, from https://www.youtube.com/watch?v=pSWOHbqt7QQ

Day, Peter. (2023, Mar 31). *Pokemon TCG: Scarlet & Violet Pull Rates.* TCGplayer Infinite. Retrieved November 28, 2023, from https://infinite.tcgplayer.com/article/Pok%C3%A9mon-TCG-Scarlet-Violet-Pull-Rates/a7702fce-dd64-4a58-beb1-0f871c853215/

Luxury Ball Collectibles. (2017c, April 2). *Opening a Generations “booster box.”* Www.youtube.com. https://www.youtube.com/watch?v=l7f7Uu-Tzw8

Luxury Ball Collectibles. (2017d, April 7). *Opening 1,000 Ancient Origins Pokemon packs*. Www.youtube.com. https://www.youtube.com/watch?v=Ry-zn0qK6XE

Poke Rev. (2023b, April 22). *I Hunted For The Rarest Primal Pokemon Cards (5.12% Chance)*. Www.youtube.com. https://www.youtube.com/watch?v=IWjPX9mS8BE

Poke Rev. (2023c, May 11). *I Searched For The Silver Card Pokemon REFUSES To Make Again*. Www.youtube.com. https://www.youtube.com/watch?v=N9erWZMQKHc

Poke Rev. (2023d, June 16). *I Thought I’d Regret Opening an $800 Evolutions Box (I Was WRONG!)*. Www.youtube.com. https://www.youtube.com/watch?v=zhVUkXU453U

cardzardgaming. (2021b, June 18). *Chilling Reign Pull Rate Data (From 5000 Packs)*. https://www.reddit.com/r/PokemonTCG/comments/o2nhez/chilling\_reign\_pull\_rate\_data\_from\_5000\_packs/

Poke Rev. (2022a, June 24). *NOT STOPPING Until I Pull EVERY Pokemon Go Card*. Www.youtube.com. https://www.youtube.com/watch?v=no6omi7K3QY

Poke Rev. (2020a, June 28). *Opening 144 Spicy Booster Packs Of XY Furious Fists Pokemon Cards!* Www.youtube.com. https://www.youtube.com/watch?v=w3bB7UKakbI

Poke Rev. (2020b, July 29). *\*NEW\* Opening DARKNESS ABLAZE Pokemon Cards! / Charizard VMAX?!* Www.youtube.com. https://www.youtube.com/watch?v=KaGH99vVEfw

Poke Rev. (2020c, August 5). *1 in Every 4 Packs?! / So Many Ultra & Secret Rare Pokemon Cards! (Huge Darkness Ablaze Opening)*. Www.youtube.com. https://www.youtube.com/watch?v=iDFbxKGXhD0

thecardpletionist. (2017a, August 8). *A Comprehensive Review of Rarity in the Pokemon TCG*. Flipside Gaming. https://www.flipsidegaming.com/blogs/pokemon-blog/a-comprehensive-review-of-rarity-in-the-pokemon-tcg

Day, Peter. (2023, Aug 11). *Pokemon TCG: Obsidian Flames Pull Rates.* TCGplayer Infinite. Retrieved November 28, 2023, from https://infinite.tcgplayer.com/article/Pok%C3%A9mon-TCG-Obsidian-Flames-Pull-Rates/e2a66999-a7b5-4621-9765-c9a132e04bd2/

thecardpletionist. (2017b, August 15). *A Comprehensive Review of Rarity in the Pokemon TCG - Part Two*. Flipside Gaming. https://www.flipsidegaming.com/blogs/pokemon-blog/a-comprehensive-review-of-rarity-in-the-pokemon-tcg-part-two

cardzardgaming. (2021c, August 31). *Evolving Skies Pull Rate Data (From 5000 Packs)*. https://www.reddit.com/r/PokemonTCG/comments/pf5scn/evolving\_skies\_pull\_rate\_data\_from\_5000\_packs/

Poke Rev. (2020d, September 6). *How Many Charizard VMAX Are In A Factory Case?* Www.youtube.com. https://www.youtube.com/watch?v=Dm208W\_qJgs

Poke Rev. (2020e, September 10). *DARKNESS ABLAZE! (Opening 320 Packs Hunting For Rare Pokemon Cards)*. Www.youtube.com. https://www.youtube.com/watch?v=m2BNL6mGq7M

Day, Peter. (2023, Sept 22). *Pokemon TCG: Scarlet & Violet-151 Pull Rates.*  TCGplayer Infinite. Retrieved November 28, 2023, from https://infinite.tcgplayer.com/article/Pok%C3%A9mon-TCG-Scarlet-Violet%E2%80%94151-Pull-Rates/b237df74-fbb0-40d0-9e13-d69ee6e804d9/

cardzardgaming. (2020a, October 5). *Instagram*. Www.instagram.com. https://www.instagram.com/p/CF-VSGMF0nx/

Luxury Ball Collectibles. (2016c, October 9). *1,000 BREAKthrough pack opening! $4,000 worth! Pokemon TCG unboxing*. Www.youtube.com. https://www.youtube.com/watch?v=gmEMqOlTiNk

Luxury Ball Collectibles. (2016d, October 11). *Opening 25x Keldeo Mythical Collections, $325 worth! 50 Generations Booster Pack! Pokemon TCG*. Www.youtube.com. https://www.youtube.com/watch?v=HCTxyMTIBf4

Poke Rev. (2022b, October 11). *I Tore Open an $800 Evolutions Box In 2022...* Www.youtube.com. https://www.youtube.com/watch?v=jURyTZGI9-I

Luxury Ball Collectibles. (2016e, October 14). *1,000 Steam Siege Pack Opening! $4,000 worth! - Pokemon Steam Siege booster box x27*. Www.youtube.com. https://www.youtube.com/watch?v=BRUKtUo4p4Y

Day, Peter. (2023, Oct 20). *The 10 Most Valuable Pokemon Cards in Brilliant Stars.*  TCGplayer Infinite. Retrieved November 28, 2023, from https://infinite.tcgplayer.com/article/The-10-Most-Valuable-Pok%C3%A9mon-Cards-in-Brilliant-Stars/aeafa051-3b3b-4856-acb1-29369d050ff6/

Day, Peter. (2023, Nov 4). *Pokemon TCG: Paradox Rift Pull Rates.*  TCGplayer Infinite. Retrieved November 28, 2023, from https://infinite.tcgplayer.com/article/Pok%C3%A9mon-TCG-Paradox-Rift-Pull-Rates/0b5fb648-38fc-4f61-a6af-57c2737b4a48/

Luxury Ball Collectible. (2016a, November 9). *Opening 10x Victini Mythical Collections, $130 worth! 20 Generations Booster Pack! Pokemon TCG*. Www.youtube.com. https://www.youtube.com/watch?v=uHxmXckPeK0

cardzardgaming. (2020b, November 11). *Vivid Voltage Pull Rate Data (from 2184 packs)*. https://www.reddit.com/r/PokemonTCG/comments/js9cd5/vivid\_voltage\_pull\_rate\_data\_from\_2184\_packs/

cardzardgaming. (2020c, November 12). *Hidden Fates Shiny Vault Pull Rate Data (from 2350 packs)*. https://www.reddit.com/r/PokemonTCG/comments/jsx9ye/hidden\_fates\_shiny\_vault\_pull\_rate\_data\_from\_2350/

Luxury Ball Collectible. (2016b, November 19). *Opening 9x Venusaur EX Red & Blue collection boxes! Generations “booster box” - 36 Packs!* Www.youtube.com. https://www.youtube.com/watch?v=jW2ZBY8bZFo