HAYES
ADVISORY GROUP

Dollar Cost Averaging & Value Cost Averaging

Avery Hayes

In the world of investing, strategies are essential to keep emotions in check, grow wealth, and develop a disciplined approach. Two common tactics that have stood the test of time are Dollar Cost Averaging (DCA) and Value Cost Averaging (VCA). While they share similarities in building a long-term portfolio, they differ in application. Let's dive into how each strategy works, how they can help investors avoid emotional trading, and how they improve profit potential over time.

What is Dollar Cost Averaging (DCA)?

Dollar Cost Averaging (DCA) is a straightforward investment strategy where an investor consistently contributes a fixed dollar amount to a particular investment, regardless of its price. This could mean buying $500 worth of a stock, ETF, or mutual fund every month, whether the market is up or down.

Advantages of DCA:

1. **Disciplined Investing**: DCA enforces regular contributions, which creates a consistent savings habit.
2. **Reduces Emotional Trading**: Investors are less likely to panic-sell when the market declines because they are focused on the long-term and consistently investing at set intervals.
3. **Mitigates Market Timing Risk**: Since purchases are spread over time, investors avoid the risk of investing a lump sum at a market high.
4. **Lower Average Costs**: Over time, by purchasing more shares when prices are low and fewer when prices are high, the average cost per share decreases.

Example Scenario of DCA:

Imagine an investor, Sarah, invests $500 every month into an index fund. In the first month, the price is $50 per share, so she buys 10 shares. The next month, the price drops to $40, so she buys 12.5 shares. In the third month, the price rises to $55, so she buys about 9.09 shares. Over these three months, Sarah invests $1,500 and owns 31.59 shares, with an average price of about $47.47 per share—lower than the highest price of $55 she faced during the period.

Now, compare this with someone who tried to time the market. If another investor, Mike, decided to wait for prices to go lower but missed the opportunity and ended up buying when the price hit $55, he would only have 27.27 shares. By using DCA, Sarah ends up with more shares at a lower average cost, which can potentially increase her profits in the long run.

What is Value Cost Averaging (VCA)?

Value Cost Averaging (VCA) takes a more dynamic approach than DCA. Instead of investing a fixed amount, VCA involves adjusting the investment amount based on the portfolio's performance. The goal is to increase the portfolio's value by a certain amount each period (e.g., $500 every month). If the portfolio has grown faster than expected, the investor contributes less or even sells a portion. If the portfolio has underperformed, the investor puts in more to make up the difference.

Advantages of VCA:

1. **Enhanced Profit Potential**: VCA leverages market volatility more effectively by increasing contributions during market dips and reducing them during market highs.
2. **Control Over Portfolio Growth**: VCA provides a targeted growth path, helping investors focus on building a desired portfolio size.
3. **Buying Low, Selling High**: Since VCA adjusts contributions based on market conditions, investors automatically buy more when prices are low and sell or contribute less when prices are high, maximizing profits.

Example Scenario of VCA:

John, a VCA investor, wants his portfolio to grow by $500 each month. If his portfolio grew to $550 in a month due to market appreciation, he only needs to add $450 to bring the total to $1,000. But if the market drops and his portfolio only grew to $450, he needs to add $550 to hit his target value.

If John's strategy is working in a down market, he's consistently buying more shares at lower prices. For instance, if John's portfolio dropped in value during a market correction, he would increase his investment, buying more shares when they are cheaper, and benefit more from the market rebound compared to someone using DCA or investing randomly.

The Emotional Side of Investing

Both DCA and VCA can significantly help reduce emotional decision-making. When markets are volatile, many investors fall prey to fear, selling investments when prices fall and buying when prices rise, driven by herd behavior. This leads to buying high and selling low, the opposite of what creates wealth.

DCA and VCA instill discipline because they provide structured plans that remove the need for constant decision-making based on emotions. With DCA, you're committed to investing regardless of market movements. With VCA, you adjust investments based on a pre-determined goal, not panic or euphoria.

Comparing Outcomes: Using DCA vs. Not Using a Strategy

Let's look at two investors, Mary and Tom, over a five-year period. Both start with an initial $0 and aim to invest $500 per month in the same stock index fund. The index fund has averaged an 8% annual return historically, but during the five years, it experiences a significant dip in year 2 followed by a recovery.

1. **DCA Investor (Mary)**:
    - **Year 1**: Mary invests $500 every month, a total of $6,000 by the end of the year. The market is relatively flat in the first year, so her portfolio value is close to $6,240, assuming an 8% annualized return.
    - **Year 2**: A recession hits, and the market drops by 25%. Despite the downturn, Mary continues to invest $500 every month, buying shares at lower prices. Her total investment for year 2 is another $6,000, but the market drop reduces her portfolio value to $9,360 by the end of the year.

- **Year 3**: The market starts to recover and ends the year up 15%. Mary again invests $6,000. Due to the recovery, her portfolio grows to $17,684.
    - **Year 4**: The market returns to its average, growing at 8%. Mary's $6,000 investment continues, and her portfolio value reaches $25,978.
    - **Year 5**: The market continues to perform at its historical average of 8%, and Mary adds her final $6,000. At the end of five years, her portfolio is valued at **$35,856**, thanks to consistent contributions and disciplined investing during the downturn.

    Total Invested: $30,000
    Portfolio Value after 5 years: $35,856
    Gain: $5,856 (19.5%)

2. **Non-Strategic Investor (Tom)**:
    - **Year 1**: Tom starts similarly, investing $500 per month for a total of $6,000 by the end of the first year. Like Mary, his portfolio is valued at about $6,240.
    - **Year 2**: When the market drops by 25%, Tom panics and sells his investments after seeing his portfolio fall to $4,680. He exits the market and waits for a safer time to invest. He misses out on buying shares at lower prices during the downturn.
    - **Year 3**: As the market recovers, Tom still hesitates, fearing another drop. He stays out of the market and misses the 15% recovery.
    - **Year 4**: Tom finally decides to re-enter the market, but now shares are more expensive after the market's recovery. He starts reinvesting $500 per month again, totaling $6,000 for the year, but his portfolio is now valued at just $6,480.
    - **Year 5**: Tom continues to invest $500 per month during the fifth year, contributing another $6,000. By the end of the fifth year, his portfolio value is **$14,818**, much lower than Mary's because he missed out on critical buying opportunities when the market was down.

    Total Invested: $18,000 (Tom only invested for three of the five years due to sitting out the market)
    Portfolio Value after 5 years: $14,818
    Loss: -$3,182 (vs. his total contributions)

Outcome Comparison

- **Mary (DCA Investor)**: She continued investing throughout the market highs and lows, and after five years, her portfolio grew to **$35,856**, giving her a solid 19.5% gain on her $30,000 investment.
- **Tom (Non-Strategic Investor)**: Tom's emotional decision to sell during the downturn and delay reinvesting cost him dearly. Although he contributed less ($18,000), his portfolio grew to only **$14,818**, leaving him with a portfolio value that is even below his total contributions, reflecting a net paper loss.

Key Takeaway: By sticking to a disciplined strategy like DCA, Mary was able to ride out market volatility and achieve long-term growth. Tom, on the other hand, succumbed to fear during the market drop, and his attempt to time the market resulted in significantly lower returns. This illustrates how emotional trading can have a detrimental impact on investment outcomes, while systematic approaches like DCA can help smooth out the emotional roller coaster of investing.

The Bottom Line: Why These Tactics Work

Both DCA and VCA are valuable tools for investors seeking to maximize profit potential while avoiding the pitfalls of emotional trading. DCA offers simplicity and consistency, perfect for investors who want to stay the course. VCA, while more complex, can offer even greater returns by encouraging investors to contribute more during market dips and reduce investments during peaks.

By sticking to these disciplined strategies, investors can improve their long-term outcomes and build wealth more effectively than those who react emotionally to market swings.

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AVERY HAYES

Financial Advisor

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765.452.7526 | Avery@hayesadvisorygroup.com | hayesadvisorygroup.com