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As I am putting together this newsletter, we are approaching Labor day weekend. I can't believe that another summer is almost over! Here in New England, they always seem to go by particularly quickly. In the financial world, it has been a pretty quiet summer. The stock markets have shown a low amount of volatility and have generally trended higher through the past few months. What can we expect for the rest of the year? Considering the business climate is strong and the economy continues to improve, the markets could finish the year on a positive note. That said, this is a great time to remind everyone of a quote from the great economist John Kenneth Galbraith who said "The only function of economic forecasting is to make astrology look respectable." That quote hangs in my office to always remind me that none of us know the future. We all need to make prudent decisions and always be mindful of change. Enjoy the end of the summer!

Summer 2017

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Did You Know...?

From Data Breaches to Ransomware: How to Avoid Becoming the Victim of a Cybercrime



Each time you connect to the Internet, you risk becoming the victim of a cybercrime. It's the price we pay for living in a digital world — whether it's at home, at work, or on your smartphone.

According to the Identity Theft Resource Institute, the number of U.S. data breaches in 2016 increased by 40%. And as recently as May 2017, a widespread "ransomware" attack targeted personal computers across the globe. While software companies are continually developing strategies to combat the latest cybercrimes, there are some steps you can take to help protect yourself online.

The stronger, the better

It's a scary thought — most of us have a large amount of financial and personal information that's readily accessible through the Internet, in most cases protected by nothing more than a username and password.

Create a strong password by using a combination of lower- and upper-case letters, numbers, and symbols or by using a random phrase. Avoid using a password with your personal information such as your name and address. In addition, have a separate and unique password for each account or website that you use.

If you have trouble keeping track of all your password information or you want an extra level of password protection, consider using password management software. Password manager programs generate strong, unique passwords that you control through a single master password.

Follow the 3-2-1 rule

Backing up your online data is critical to avoid losing valuable information due to a cyber attack. If you have digital assets that you don't want to risk losing forever, you should back

them up regularly. This pertains to data stored on both personal computers and mobile devices.

When backing up data, a good rule to follow is the 3-2-1 rule. This rule helps reduce the risk that any one event — such as a computer hacker gaining access to your computer — will compromise your primary data and backups. In order to follow the 3-2-1 rule:

- Have at least three copies of your data (this means a minimum of the original plus two backups)
- Use at least two different formats (e.g., hard drive and cloud-based service)
- Ensure that at least one backup copy is stored in a separate location (e.g., safe-deposit box)

Stay one step ahead

Finally, the best way to avoid becoming the victim of a cybercrime is to stay one step ahead of the cybercriminals. Here are some extra precautions you can take before you go online:

Consider using two-step authentication.

Two-step authentication, which involves using a text or email code along with your password, provides another layer of protection for your sensitive data.

Keep an eye on your accounts. Notify your financial institution immediately if you see suspicious activity. Early notification not only can stop the cyber thief but may limit your financial liability.

Think twice before clicking. Beware of emails containing links or asking for personal information. Never click on a link in an email or text unless you know the sender and have a clear idea where the link will take you.

Be careful when you shop. When shopping online, look for the secure lock symbol in the address bar and the letters *https*: (as opposed to *http*:) in the URL. Avoid using public Wi-Fi networks for shopping, as they lack secure connections.



Test Your Investing IQ



All investing involves risk, including the possible loss of principal, and there can be no assurance that any investment strategy will be successful. Generally, the more potential for growth offered by an investment, the more risk it carries.

The performance of an unmanaged index is not indicative of the performance of any specific security. Individuals cannot invest directly in such an index.

Because zero-coupon bonds do not pay interest until maturity, their prices tend to be more volatile than bonds that pay interest regularly. Interest income is subject to ordinary income tax each year, even though the investor does not receive any income payments.

The return and principal value of stocks, bonds, and mutual funds may fluctuate with market conditions. Shares, when sold, and bonds redeemed prior to maturity may be worth more or less than their original cost.

How much do you know about market basics? Put your investing IQ to the test with this quiz on stocks, bonds, and mutual funds.

Questions

1. What does it mean to buy stock in a company?

- a. The investor loans money to the company
- b. The investor becomes a part owner of the company
- c. The investor is liable for the company's debts

2. Which of the following statements about stock indexes is correct?

- a. A stock index is an indicator of stock price movements
- b. There are many different types of stock indexes
- c. They can be used as benchmarks to compare the performance of an individual investment to a group of its peers
- d. All of the above

3. What is a bond?

- a. An equity security
- b. A nonnegotiable note
- c. A debt investment in which an investor loans money to an entity

4. What kind of bond pays no periodic interest?

- a. Zero-coupon
- b. Floating-rate
- c. Tax-exempt

5. What is a mutual fund?

- a. A portfolio of securities assembled by an investment company
- b. An investment technique of buying a fixed dollar amount of a particular investment regularly
- c. A legal document that provides details about an investment

6. What is the difference between mutual fund share classes?

- a. The investment advisers responsible for managing each class
- b. The investments each class makes
- c. The fees and expenses charged by each fund class

Answers

1. b. The investor becomes a part owner of the company. Stocks are often referred to as equities because they represent an ownership position. As part owners, shareholders assume both the potential financial risks and benefits of this position, but without the responsibility of running the company.

2. d. All of the above. A stock index measures and reports value changes in representative stock groupings. A broad-based stock index represents a diverse cross-section of stocks and reflects movements in the market as a whole. The Dow Jones Industrial Average, NASDAQ Composite Index, and S&P 500 are three of the most widely used U.S. stock indexes. There are also more narrowly focused indexes that track stocks in a particular industry or market segment.

3. c. A debt investment in which an investor loans money to an entity. Unlike shareholders, bondholders do not have ownership rights in a company. Instead, investors who buy bonds are lending their money to the issuer (such as a municipality or a corporation) and thus become the issuer's creditors.

4. a. Zero-coupon. Unlike many types of bonds, zero-coupon bonds pay no periodic interest. They are purchased at a discount, meaning the purchase price is lower than the face value. When the bond matures, the difference between the purchase price and that face value is the investment's return.

5. a. A portfolio of securities assembled by an investment company. A mutual fund is a pooled investment that may combine dozens to hundreds of stocks, bonds, and other securities into one portfolio shared by many investors.

6. c. The fees and expenses charged by each fund class. A mutual fund may offer various share classes to investors, most commonly A, B, and C. This gives an investor the opportunity to select a share class best suited to his or her investment goals.

Mutual funds are sold by prospectus. Please consider the investment objectives, risks, charges, and expenses carefully before investing. The prospectus, which contains this and other information about the investment company, can be obtained from your financial professional. Be sure to read the prospectus carefully before deciding whether to invest.



Five Common Financial Aid Myths



Net price calculators

Net price calculators, available on all college websites, provide families with an advance estimate of what their "net" price will be at a particular college based on their income, assets, and personal family information. The net price is the price after grants and scholarships are factored in. This figure gives families a much better idea of the real cost of a particular college so they can make well-informed financial decisions.

With some private colleges now crossing the once unthinkable \$70,000-per-year mark in the 2017/2018 school year, and higher costs at public colleges, too, financial aid is essential for many families. How much do you know about this important piece of the college financing puzzle? Consider these financial aid myths.

1. My child won't qualify for aid because we make too much money

Not necessarily. While it's true that family income is the main factor in determining aid eligibility, it's not the only factor. The number of children you'll have in college at the same time is a significant factor — for example, having two children in college will cut your expected family contribution (EFC) in half. Your assets, overall family size, and age of the older parent also play into the equation.

Side note: Even if you think your child won't qualify for aid, you should still consider filing the government's Free Application for Federal Student Aid (FAFSA) for two reasons. First, all students — regardless of income — who attend school at least half-time are eligible for unsubsidized federal Direct Loans, and the FAFSA is a prerequisite for these loans. ("Unsubsidized" means the student pays the interest during college, the grace period, and any loan deferment periods.) So if you want your child to have some "skin in the game" by taking on a small student loan, you'll need to file the FAFSA. Second, the FAFSA is *always* a prerequisite for college need-based aid and is *sometimes* a prerequisite for college merit-based aid. Bottom line? It's usually a good idea to file this form.

2. The form is too hard to fill out

Not really. Years ago, the FAFSA was cumbersome to fill out. But now that it's online at fafsa.ed.gov, it is much easier to complete. The online version has detailed instructions and guides you step by step. There is also a toll-free number you can call with questions: 1-800-4-FED-AID. All advice is free. In addition, a recent change has made the FAFSA even easier to fill out: The FAFSA now relies on your tax information from two years prior rather than one year prior (referred to as the "prior-prior year" or the "base year"). For example, the 2017/2018 FAFSA relies on your 2015 tax information, the 2018/2019 FAFSA relies on your 2016 tax information, and so on. This means that your necessary tax numbers will be handy as you answer questions on the FAFSA. The first time you file the FAFSA, you and your child will need to create an FSA ID, which consists of a username and password.

Side note: The CSS/Financial Aid PROFILE, an additional aid form required by most private colleges, is more detailed than the FAFSA and thus harder to fill out. It essentially takes a financial snapshot of your family's past year, current year, and upcoming year (it asks for estimates for the latter).

3. If my child applies to a more expensive school, we'll get more aid

Not necessarily. Colleges determine your EFC based on the income and asset information you provide on the FAFSA and, where applicable, the CSS PROFILE. Your EFC stays the same no matter what college your child applies to. The difference between the cost of a particular college and your EFC equals your child's financial need (sometimes referred to as "demonstrated need"). The more expensive a college is, the greater your child's financial need. But a greater financial need doesn't automatically translate into a bigger financial aid package — colleges aren't obligated to meet 100% of your child's financial need.

Side note: When making a college list, your child can research a particular college's generosity, including whether it meets 100% of demonstrated need and if it replaces federal loan awards with college grants in its aid packages.

4. We own our home, so my child won't qualify for aid

The FAFSA does not take home equity into account when determining a family's expected family contribution (it also does not consider the value of retirement accounts, cash value life insurance, and annuities).

Side note: The CSS PROFILE does collect home equity and vacation home information, and some colleges may use it when distributing their own institutional aid.

5. I lost my job after I submitted aid forms, but there's nothing I can do now

Not true. If your financial circumstances change after you file the FAFSA — and you can support this with documentation — you can politely ask the financial aid officer at your child's school to revisit your aid package; the officer has the authority to make adjustments if there have been material changes to your family's income or assets.

Side note: A blanket statement of "I can't afford my family contribution" is unlikely to be successful unless it is accompanied by a significant changed circumstance that affects your ability to pay.

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How do economists measure inflation, and why does it matter to investors?

The Federal Open Market Committee (FOMC) adjusts interest rates to help keep inflation near a 2% target. The FOMC's preferred measure of inflation is the Price Index for Personal Consumption Expenditures (PCE), primarily because it covers a broad range of prices and picks up shifts in consumer behavior. The Fed also focuses on core inflation measures, which strip out volatile food and energy categories that are less likely to respond to monetary policy.

The typical American might be more familiar with the Consumer Price Index (CPI), which was the Fed's favorite inflation gauge until 2012. The Consumer Price Index for All Urban Consumers (CPI-U) is used to determine cost-of-living adjustments for federal income taxes and Social Security.

The CPI only measures the prices that consumers actually pay for a fixed basket of goods, whereas the PCE tracks the prices of everything that is consumed, regardless of who pays. For example, the CPI includes a patient's out-of-pocket costs for a doctor's visit, while the PCE considers the total charge billed to

insurance companies, the government, and the patient.

The PCE methodology uses current and past expenditures to adjust category weights, capturing consumers' tendency to substitute less expensive goods for more expensive items. The weighting of CPI categories is only adjusted every two years, so the index does not respond quickly to changes in consumer spending habits, but it provides a good comparison of prices over time.

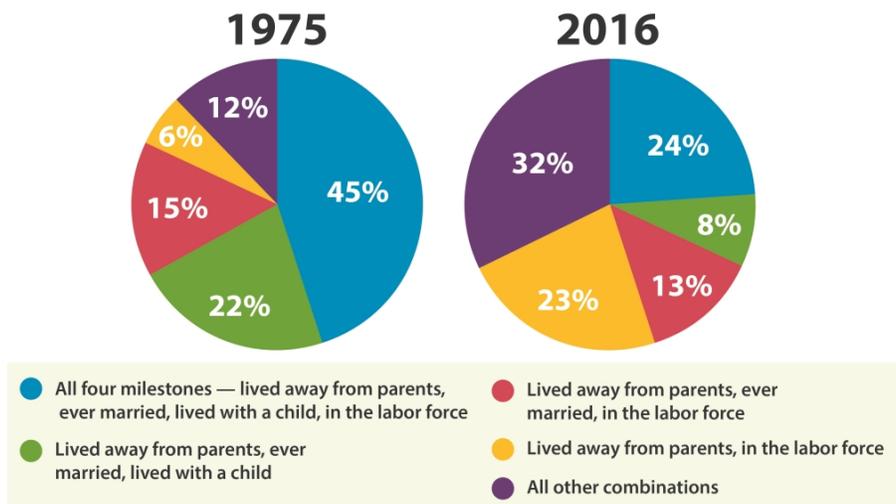
According to the CPI, inflation rose 2.1% in 2016 — right in line with the 20-year average of 2.13%.¹ This level of inflation may not be a big strain on the family budget, but even moderate inflation can have a negative impact on the purchasing power of fixed-income investments. For example, a hypothetical investment earning 5% annually would have a "real return" of only 3% during a period of 2% annual inflation.

Of course, if inflation picks up speed, it could become a more pressing concern for consumers and investors.

¹ U.S. Bureau of Labor Statistics, 2017 (data through December 2016)

Chart: Young Adult Milestones, 1975 vs. 2016

The following pie charts compare four common milestones of adulthood — getting married, having children, working, and living independently — achieved by young adults ages 25 to 34 in 1975 and 2016. The data indicates that the experiences of young people today are more diverse, with fewer accomplishing all four milestones in young adulthood. Instead, many young adults are delaying or forgoing some experiences (marrying and having children) in favor of others (living independently and gaining work experience).



Source: U.S. Census Bureau, "The Changing Economics and Demographics of Young Adulthood: 1975-2016," April 2017