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Plastics can be divided into two major categories: 1. Thermoset or thermosetting plastics. Once cooled and hardened, these plastics retain their shapes and cannot return to their original form. They are hard and durable. Thermosets can be used for auto parts, aircraft parts and tires. Examples include polyurethanes, polyesters, epoxy resins and phenolic resins. 2. Thermoplastics. Less rigid than thermosets, thermoplastics can soften upon heating and return to their original form. They are easily molded and extruded into films, fibers and packaging. Examples include polyethylene (PE), polypropylene (PP) and polyvinyl chloride (PVC). Let's look at some common plastics. Polyethylene terephthalate (PET or PETE): John Rex Whinfield invented a new polymer in 1941 when he condensed ethylene glycol with terephthalic acid. The condensate was polyethylene terephthalate (PET or PETE). PET is a thermoplastic that can be drawn into fibers (like Dacron) and films (like Mylar). It's the main plastic in ziplock food storage bags. Polystyrene (Styrofoam): Polystyrene is formed by styrene molecules. The double bond between the CH₂ and CH parts of the molecule rearranges to form a bond with adjacent styrene molecules, thereby producing polystyrene. It can form a hard impact-resistant plastic for furniture, cabinets (for computer monitors and TVs), glasses and utensils. When polystyrene is heated and air blown through the mixture, it forms Styrofoam. Styrofoam is lightweight, moldable and an excellent insulator. Polyvinyl Chloride (PVC): PVC is a thermoplastic that is formed when vinyl chloride (CH₂=CH-Cl) polymerizes. When made, it's brittle, so manufacturers add a plasticizer liquid to make it soft and moldable. PVC is commonly used for pipes and plumbing because it's durable, can't be corroded and is cheaper than metal pipes. Over long periods of time, however, the plasticizer may leach out of it, rendering it brittle and breakable. Polytetrafluoroethylene (Teflon): Teflon was made in 1938 by DuPont. It's created by polymerization of tetrafluoroethylene molecules (CF₂=CF₂). The polymer is stable, heat-resistant, strong, resistant to many chemicals and has a nearly frictionless surface. Teflon is used in plumbing tape, cookware, tubing, waterproof coatings, films and bearings. Polyvinylidene Chloride (Saran): Dow makes Saran resins, which are synthesized by polymerization of vinylidene chloride molecules (CH₂=CCl₂). The polymer can be drawn into films and wraps that are impermeable to food odors. Saran wrap is a popular plastic for packaging foods. Polyethylene, LDPE and HDPE: The most common polymer in plastics is polyethylene, which is made from ethylene monomers (CH₂=CH₂). The first polyethylene was made in 1934. Today, we call it low-density polyethylene (LDPE) because it will float in a mixture of alcohol and water. In LDPE, the polymer strands are entangled and loosely organized, so it's soft and flexible. It was first used to insulate electrical wires, but today it's used in films, wraps, bottles, disposable gloves and garbage bags. In the 1950s, Karl Ziegler polymerized ethylene in the presence of various metals. The resulting polyethylene polymer was composed of mostly linear polymers. This linear form produced tighter, denser, more organized structures and is now called high-density polyethylene (HDPE). HDPE is a harder plastic with a higher melting point than LDPE, and it sinks in an alcohol-water mixture. HDPE was first introduced in the hula hoop, but today it's mostly used in containers. Polypropylene (PP): In 1953, Karl Ziegler and Giulio Natta, working independently, prepared polypropylene from propylene monomers (CH₂=CHCH₃) and received the Nobel Prize in Chemistry in 1963. The various forms of polypropylene have different melting points and hardnesses. Polypropylene is used in car trim, battery cases, bottles, tubes, filaments and bags. Now that we have discussed the various types of plastics, let's look at how plastics are made. All property falls into two categories: real or personal property. Whether something is considered real property or personal property depends on a surprisingly simple test: Can you physically move it? The outcome of that test determines the distinction between real property and personal property, which in turn has real implications for taxation. Consider working with a financial advisor as you make decisions about real and personal property. What Is Real Property? Real property is land or things attached to land. That is why you sometimes hear land referred to as real estate or realty. While materials such as wood, metal or other building materials aren't real property on their own, they can become real property if they are attached to land. Vegetation such as trees or plants that grow on land can also be considered real property. However, plants that require routine cultivation or labor, such as crops, may not be considered real property. Because ownership of real estate includes the rights, interests and benefits inherent in that ownership, real property is a broader, more inclusive term than real estate. For example, real property also includes minerals under the surface of the land as well as airspace above the land's surface. Also, real property includes intangible rights including: The right of enjoyment – The right to use the property for any lawful purposes The right of exclusion – The right to decide who may enter the property and the right to control access to the property The right of possession – The right to live on the property The right of disposition – The right to transfer ownership of the property to another party The right of control – The right to destroy, modify or rent out the property to another person – or make any legal decision pertaining to the property What Is Personal Property? Personal property can be broken down into two categories: chattels and intangibles. Chattels refers to all type of property. Often, individuals use it regarding the tangible property such as a purse or clothing. Some chattels are attached to land and can become a part of real property, which are known as fixtures. In some cases, fixtures may remain personal property. For example, at the end of a lease term, a tenant might have the right to remove fixtures they installed even if they do not have any rights to the real property. Intangibles are forms of personal property that are not considered tangible. This means that intangible property cannot be touched or seen. The purpose of this category is to accurately address legal rights to property and not to things. Some intangible things may include bank accounts, intellectual property, franchises and licenses, insurance policies, and investments such as stocks or bonds. Key Differences Essentially, personal property is anything you can move and is subject to ownership (except land). Real property cannot be moved and is anything that is attached to land. Generally, determining the clarification for a property is simple since the differences are straightforward. However, there are cases where it is more difficult to determine what type of property you're dealing with. For instance, let's say you want to build a shed in your backyard. If you visit Home Depot and purchase the materials such as lumber and other tools, this is personal property. But, once you build the structure and it's attached to the land, it becomes real property. Why the Classification Matters Classifying real and personal property matters for several reasons. The first reason is that certain concerns may arise when a creditor wants to take possession of equipment that may be attached to a real property or if someone wants to remove a fixture when they move from a property. This concern relates to how a property is taxed, either real or personal. In the past, many U.S. states taxed all tangible property. Now, to attract new investments and retain manufacturing, some states are moving toward eliminating taxes on personal property. This means that taxpayers' overall tax burden may decrease. Recategorizing specific assets may have additional tax benefits. Generally, taxpayers can depreciate short-lived personal property faster than long-lived real estate assets. In some instances, how an asset is categorized can divulge instances where a piece of property was unintentionally overlooked from taxation, or worse, received double the taxation. How to Classify a Property Determining if a piece of property is real or personal is usually simple. But there are some gray areas when determining the classification of certain fixtures. A fixture is an article that was personal property at one point but is now attached to real property in some capacity. Typically, they are classified as real property since they are not attached. For tax purposes, jurisdictions usually apply a three-part test when classifying a fixture associated with real property. This three-part test includes: Occupation or Attachment: The jurisdiction evaluates how the property is attached, if it can be removed, and if the removal will cause any damage to the real property. Adaptation: The jurisdiction evaluates how the property is used relative to the real estate. Intent: The jurisdiction evaluates if the installment of the property intends to be permanently attached to the real estate or does the use of the real property change the intention of the fixture. However, there are no rules that constitute a fixture. It's important to note that because of the ambiguity of defining a fixture, taxpayers may face significant taxation issues. The Bottom Line Classifying real or personal property is a worthwhile endeavor if you want to reduce your tax burden. Because there is a lack of distinction regarding fixtures, you must become knowledgeable about the local case laws and historical evaluation practices. You may also want to consult with a tax advisor or financial advisor for a professional evaluation of your property tax position. Tips for Categorizing Your Property A financial advisor can help you navigate the vagaries of tax law to improve your overall financial picture. Finding the right financial advisor who fits your needs doesn't have to be hard. SmartAsset's free tool matches you with up to three financial advisors who serve your area, and you can interview your advisor matches at no cost to decide which one is right for you. If you're ready to find an advisor who can help you achieve your financial goals, get started now. A good first step in figuring out if you your property is correctly listed as real or person is to use this tax guide, which includes a property tax calculator. Photo credit: ©iStock.com/CHRISsadowski, ©iStock.com/wip-studiolublin, ©iStock.com/Moyo Studio Page 2 Do you know enough about financial management to take care of all of your investing on your own? Or do you need help from a seasoned expert? That question comes up for millions of Americans each year. If any of these describe you, you could benefit from professional financial advice: 1. You're retiring soon – Maximizing retirement income requires smart decisions around complex topics such as Social Security, 401(k) and IRA withdrawals. 2. You manage your own investments – Individual investors should check their strategies with unbiased third parties. You may be overlooking opportunities in your portfolio. 3. You have children – Whether you're saving for college or planning their inheritance, there are several ways to ensure your children are taken care of. 4. You inherited money – Have you noticed lottery winners often declare bankruptcy? It can be difficult to manage sudden increases in wealth. 5. You have a financial advisor – Depending on how you chose your advisor, there may be a better one for you. Family referrals are convenient but don't always produce results. 6. You're divorcing – Untangling finances in a divorce can be messy. Impartial advice is key. 7. You want to build wealth – If you're still decades from retirement, good decisions today can add thousands to your retirement accounts. See Your 3 Financial Advisor Matches Finding a qualified financial advisor doesn't have to be hard. SmartAsset's free tool matches you with financial advisors in your area in 5 minutes. Each advisor has been pre-screened and vetted by SmartAsset and is held to a fiduciary standard. If you're ready to be matched with local advisors that can help you achieve your financial goals, get started now.

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