

SOLUTIONS MATHEMATICAL STATISTICS WITH APPLICATIONS 7TH EDITION

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Solutions Mathematical Statistics with Applications, 7th Edition

Question 1: Find the probability that a randomly selected student from a class of 50 students has a GPA of at least 3.5.

Answer: This question can be solved using the normal distribution. Let X be the GPA of a randomly selected student. Then, the probability that X is at least 3.5 can be found using the standard normal distribution:

$$P(X \geq 3.5) = 1 - P(X < 3.5) = 1 - \Phi(3.5) = 0.0228$$

Question 2: Test the hypothesis that the mean height of adult males in a certain population is 69 inches. A random sample of 100 adult males has a mean height of 68.5 inches and a standard deviation of 2.5 inches.

Answer: We can use a one-sample t-test to test this hypothesis. The t-statistic is:

$$t = (68.5 - 69) / (2.5 / \sqrt{100}) = -2$$

The p-value for this t-statistic is:

$$p\text{-value} = P(t < -2) = 0.0228$$

Since the p-value is less than 0.05, we reject the null hypothesis and conclude that the mean height of adult males in the population is not 69 inches.

Question 3: Find the maximum likelihood estimator of the parameter θ in the exponential distribution with probability density function $f(x) = \theta e^{-\theta x}$.

Answer: The maximum likelihood estimator of θ is given by:

$$\hat{\theta} = 1/\bar{x}$$

where \bar{x} is the sample mean.

Question 4: Suppose that the number of customers arriving at a store per hour follows a Poisson distribution with mean $\theta = 5$. Find the probability that exactly 7 customers arrive in a given hour.

Answer: The probability of exactly 7 customers arriving in a given hour is:

$$P(X = 7) = (e^{-5} * 5^7) / 7! = 0.1187$$

Question 5: A company is evaluating two new advertising campaigns to increase sales. They conduct an experiment where they assign 100 customers to each campaign. The sales increase in campaign A is 10% with a standard deviation of 2%, while the sales increase in campaign B is 8% with a standard deviation of 1%. Can we conclude that campaign A is better than campaign B?

Answer: We can use a two-sample t-test to test this hypothesis. The t-statistic is:

$$t = (0.10 - 0.08) / \sqrt{(0.02^2 + 0.01^2)} = 2.236$$

The p-value for this t-statistic is:

$$p\text{-value} = P(t < 2.236) = 0.0244$$

Since the p-value is less than 0.05, we reject the null hypothesis and conclude that campaign A is better than campaign B.

Transportation Engineering and Planning: A Guide to Papacostas' eBook

What is transportation engineering and planning?

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How to own your own corporation?

Why are companies allowed to own other companies? It can allow some diversification in tax planning and structural allocation of ownership. It can allow the parent company to own "local" companies while maintaining its own identity.

What makes a company a corporation? A corporation, sometimes called a C corp, is a legal entity that's separate from its owners. Corporations can make a profit, be taxed, and can be held legally liable. Corporations offer the strongest protection to its owners from personal liability, but the cost to form a corporation is higher than other structures.

What is the definition of a corporate company? A corporation is an organization—usually a group of people or a company—authorized by the state to act as a single entity (a legal entity recognized by private and public law as "born out of statute"; a legal person in a legal context) and recognized as such in law for certain purposes.

Is it better to start as Corp or LLC? While every business owner should decide which business structure is right for them based on their business needs and business plan, for most small businesses just starting, it is better to choose an LLC instead of an S corporation.

What are the cons of owning a corporation?

What is it called when a company owns a lot of other companies? A conglomerate is a corporation composed of several different, independent businesses. One company owns a controlling stake in several smaller companies, all of which conduct business separately and independently.

What is it called when two companies own everything? Conglomerate (company) - Wikipedia.

Can you have your own company and work for another company? So you've checked your employment contract, and there's nothing stopping you from starting your new business while you're still employed at your day job. Here are a few tips to help smooth the road to running a successful side business while remaining employed: Be aware of the time commitment a side business requires.

Who are the true owners of a corporation? Answer and Explanation: Common stockholders are the ones considered as the real and true owners of a corporation.

Who legally owns the corporation? Shareholders. Shareholders are the owners of a corporation. They receive a share of profits from the business, often in return for an investment of money or labor. Ownership is represented by common or preferred shares issued by the corporation.

Who makes money in a corporation? A corporation conducts business, realizes net income or loss, pays taxes and distributes profits to shareholders. The profit of a corporation is taxed to the corporation when earned, and then is taxed to the shareholders when distributed as dividends. This creates a double tax.

What is the legal life of a corporation? The legal life of a corporation is perpetual. Corporations are a separate legal entity from the owners or shareholders, and as long as the corporation is in legal status, it is considered active. Legal status includes: Continuity of life.

What is the purpose of a corporation? Today, the standard answer is that a corporation's purpose is to benefit its shareholders – academics speak of the “shareholder primacy norm,” and many talk of corporate managers' task as “shareholder wealth maximization.” Even apparently selfless corporate acts, such as charitable donations, are justified as ...

Is a corporation a person? Co. v. Riggs (203 U.S. 243 (1906)), the Court accepted that corporations are for legal purposes “persons”, but still ruled that the Fourteenth Amendment was not a bar to many state laws which effectively limited a corporation's right to contract business as it pleased.

Why would anyone choose LLC over S Corp? Advantages of LLCs over S corporations. One of the reasons many people prefer the LLC over the corporation is

that there is more flexibility in how it is managed. Corporation laws (which, as noted apply equally to S corps and C corps) contain more provisions regarding managing the company than LLC laws.

What does the S in S Corp stand for? “S corporation” stands for “Subchapter S corporation”, or sometimes “Small Business Corporation.” It's a special tax status granted by the IRS (Internal Revenue Service) that lets corporations pass their corporate income, credits and deductions through to their shareholders.

Can my S Corp pay my personal taxes? The corporation can pay you a salary, and withhold taxes on your behalf from that salary. In fact, the corporation is required to do that if it's profitable (you're required to pay yourself a reasonable salary before taking distributions). But the corporation cannot and should not pay your personal obligations.

Why not to choose a corporation? Cons of Forming a Corporation Many documents must be prepared. This includes the new corporation's articles of incorporation and bylaws. You also have to pay a filing fee to your state's Secretary of State office or a similar business filing agency. Cost: Incorporating generally requires more funds upfront.

What is a major disadvantage of a corporation? Double taxation can be considered the major disadvantage of the corporation. It refers to the fact that income generated by the corporation is taxed both at the corporate and personal level.

What is the major disadvantage to filing as a corporation? In other words, if you own a corporation, your possible losses will be limited to the amount you've invested in it. The disadvantages of a corporation can include costly start-up and ongoing formation expenses, double taxation on profits, and many other compliance costs.

Why does Pepsi own so many companies? The deal that gave the modern-day PepsiCo its shape was its 1965 merger with Frito-Lay, the leading snack maker and owner of brands including Fritos, Lay's, Ruffles, and Doritos. The deal marked Pepsi's first foray into the food industry and came just four years after The Frito Company had merged with H.W.

What is it called when you own more than 50% of a company? A majority shareholder is a person or entity who holds more than 50% of shares of a company. If the majority shareholder holds voting shares, they dictate the direction of the company through their voting power.

Do holding companies pay taxes? Holding Company Tax Implications. Even though the parent company typically remains in control of its subsidiaries, the companies are considered legally separate. Because the companies are recognized as separate, each company pays its own taxes as it corresponds to their specific income.

Can one person own 100% of a corporation? A corporation is owned by shareholders. If you are the sole owner of the company, then you own 100 percent of the shares. If there are other owners besides yourself, the ownership position of each is based on the percentage of the total shares owned.

What are the benefits of owning your own corporation? There are several advantages to becoming a corporation, including limited personal liability, easy transfer of ownership, business continuity, better access to capital, and (depending on the corporation structure) occasional tax benefits.

How do you get ownership in a corporation? Shareholders. Once a corporation is formed by filing articles of incorporation, the people or entities involved who will own the company are issued shares of stock in exchange for their capital contributions, such as contributions of cash or services.

Can a corporation be owned by an individual? The Bottom Line. A corporation may be formed by an individual or group with a shared goal and can be a for-profit or not-for-profit entity.

How do owners of a corporation get paid? Business owners can either pay themselves through salaries or as a dividend in a few business structures. You can also be paid based on both methods as well. The major difference between these income methods is how they are taxed.

How does a corporation make money? Companies generally exist to earn a profit by selling a product or service for more than it costs to produce. This is the most

basic source of funds for any company and, hopefully, the primary method that brings in money to the firm.

Can one person hold all positions in a corporation? Corporations Code section 312 Any number of offices may be held by the same person unless the articles or bylaws provide otherwise.

What is the biggest advantage of a corporation? Forming a corporation allows you to: Secure your assets. One of the main advantages* that corporations have is that the owners enjoy limited liability protection and are typically not personally responsible for business debts.

What are four disadvantages of incorporating?

How does owning a corporation affect my personal taxes? The business structure that you choose will directly affect your personal taxes. If you have a sole proprietorship, partnership, LLC, or S corporation, you'll need to report business income on your individual income tax return. And if you have a C corporation, you'll need to file a separate business tax return.

Who are the true owners of a corporation? Answer and Explanation: Common stockholders are the ones considered as the real and true owners of a corporation.

Who keeps the profits in a corporation? Profits may be distributed to shareholders in the form of dividends, or they may be reinvested or retained (within limits) by the corporation. Losses by the corporation are not claimed by individual shareholders.

What are the disadvantages of a corporation? Disadvantages of a Corporation It is subject to heavier taxation than other forms of business organizations. Minority shareholders are subservient to the wishes of the majority. In large corporations, management and control have been separated from ownership.

Who has ownership rights in a corporation? Shareholders make money in two main ways: Capital appreciation and dividend payments. Common shareholders are granted six rights: voting power, ownership, the right to transfer ownership, a claim to dividends, the right to inspect corporate documents, and the right to sue for wrongful acts.

Can there be 1 person in a corporation? With an OPC, a single stockholder can now establish a corporation and take advantage of the rights and privileges that are available to ordinary corporations and its shareholders. In addition, some foreign investors are not used to having so many people on board right at the onset. The OPC addresses this concern.

What is the legal life of a corporation? The legal life of a corporation is perpetual. Corporations are a separate legal entity from the owners or shareholders, and as long as the corporation is in legal status, it is considered active. Legal status includes: Continuity of life.

Thai Financial System Structure and the Role of the Bank of Thailand

The Thai financial system is a complex and dynamic network of institutions that play a crucial role in the country's economic growth and stability. At the core of this system is the Bank of Thailand (BOT), the central bank responsible for overseeing and regulating the financial sector.

What is the Bank of Thailand's Role?

The BOT is a quasi-government agency established in 1942 with a mandate to:

- Issue and manage the Thai currency (baht)
- Supervise and regulate the banking and financial institutions
- Promote monetary and financial stability
- Foster economic growth and development

How is the Thai Financial System Structured?

The Thai financial system can be broadly divided into two main components: the banking system and the non-banking financial system.

- **Banking System:** Comprises commercial banks, state-owned banks, and specialized banks. These institutions accept deposits, provide loans, and offer a range of financial services.

- **Non-Banking Financial System:** Includes insurance companies, pension funds, investment funds, and other financial intermediaries. These institutions mobilize savings and channel them into productive investments.

How Does the BOT Supervise the Financial System?

The BOT exercises its supervisory authority through a combination of measures, including:

- Licensing and regulation of financial institutions
- Setting and enforcing prudential regulations
- Conducting regular inspections
- Monitoring financial data and indicators

What is the Importance of Financial Stability?

Financial stability is essential for maintaining a healthy economy. A well-functioning financial system facilitates the flow of funds between savers and investors, promotes capital formation, and supports economic growth. When the financial system is weak or unstable, it can lead to a loss of confidence, reduced economic activity, and even financial crises.

Conclusion

The Thai financial system, overseen by the Bank of Thailand, plays a critical role in ensuring financial stability and economic growth. By prudently regulating the financial sector, the BOT fosters an environment that supports savings, investment, and sustainable development for the benefit of all Thai citizens.

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