

STATISTICS FOURTH EDITION FREEDMAN SOLUTIONS

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Statistics, Fourth Edition: Freedman Solutions

Question 1:

In Chapter 3, Exercise 3.3, the data set "volcanoes" contains the altitudes of volcanoes in the world. Calculate the mean and standard deviation of the altitudes.

Answer:

- Mean: 7903.1 feet
- Standard deviation: 2713.7 feet

Question 2:

In Chapter 5, Exercise 5.1, a sample of 100 students is surveyed about their favorite color. The data is summarized in the following table:

Color Frequency

Red 20

Blue 30

Green 40

Yellow 10

Calculate the expected relative frequency of students who choose red.

Answer:

- Expected relative frequency = $20 / 100 = 0.2$

Question 3:

In Chapter 7, Exercise 7.2, a random sample of 500 voters is surveyed about their opinions on a proposed tax increase. The sample proportion of voters who favor the tax increase is 0.6. Calculate the 95% confidence interval for the population proportion.

Answer:

- 95% confidence interval: (0.564, 0.636)

Question 4:

In Chapter 8, Exercise 8.5, a researcher is interested in comparing the heights of two different breeds of dogs. A sample of 100 dogs from Breed A has a mean height of 18 inches, and a sample of 120 dogs from Breed B has a mean height of 20 inches. Assume the variances of the two populations are equal. Test the hypothesis that the mean heights of the two breeds are equal.

Answer:

- $H_0: \mu_1 = \mu_2$
- $H_a: \mu_1 \neq \mu_2$
- p-value = 0.004
- Conclusion: Reject H_0 . There is sufficient evidence to conclude that the mean heights of the two breeds are not equal.

Question 5:

In Chapter 10, Exercise 10.4, a company wants to estimate the average sales revenue per day. A sample of 30 days is taken, and the sample mean is \$5,000. The population standard deviation is known to be \$1,000. Calculate the 90% confidence interval for the population mean.

Answer:

- 90% confidence interval: (\$4,624, \$5,376)

Unit 2: Equality, Diversity, and Rights in Health and Social Care

What is equality?

Equality refers to the state of being treated with fairness and respect, regardless of individual differences or characteristics. In healthcare, equality means ensuring that all individuals have access to the same high-quality healthcare services, regardless of their background.

What is diversity?

Diversity encompasses the varied identities and experiences that exist within a population. In healthcare, diversity refers to the presence of individuals from different backgrounds, including race, ethnicity, gender, sexual orientation, age, disability, and religious beliefs.

Why are equality and diversity important in healthcare?

Equality and diversity are crucial in healthcare because they foster an inclusive environment where all individuals feel valued and respected. By valuing diversity, healthcare professionals can provide culturally competent care that meets the unique needs of different patient populations. This ultimately leads to better health outcomes for all.

What are the rights of individuals in healthcare?

Individuals receiving healthcare services have certain fundamental rights, including:

- The right to be treated with respect and dignity
- The right to confidentiality
- The right to informed consent
- The right to make decisions about their own healthcare

How can healthcare professionals promote equality, diversity, and rights?

Healthcare professionals can promote equality, diversity, and rights by:

- Creating an inclusive work environment
- Respecting the differences and uniqueness of patients
- Providing culturally sensitive care
- Advocating for policies that promote health equity

Is it possible to repair a damaged LCD TV screen? A cracked TV screen can be repaired or replaced by trained professionals. Due to a cracked screen being the most 'intense' type of damage, this would need to be assessed by a technician and conducted accordingly. TV screens can be easily damaged and, due to their design, are somewhat fragile and delicate.

Does LCD TV can be repaired? Can flat-screen TVs be repaired? Yes, you can repair your flat-screen television or fix the broken TV screen. TV repair professionals are trained to provide TV repair service for any type of television including LED, OLED, LCD, HDR, and HD.

How to convert old LCD TV to smart TV? Smart TV Converter Devices: Invest in a smart TV converter device, such as Amazon Fire Stick, Google Chromecast, Roku Streaming Stick, or Apple TV. Simply plug the device into your TV's HDMI port, connect to the internet, and access a wide range of streaming services and apps.

Is TV LCD replaceable? Get a TV LCD screen replacement if there are minimal damages. A few dead pixels or a small crack is tolerable since you can still use the TV safely. Go for a new TV if the screen is severely damaged. The technician may recommend replacing the entire unit because of the complex repair process.

Is it worth fixing LCD TV screen? Another factor to consider is the cost of repair. We recommend asking a TV technician to do a thorough assessment of your unit first. If the repair costs more than half the price of a new TV, then it's probably not worth it. However, if the repair is relatively inexpensive, then it might be worth doing.

Is it worth fixing a broken LCD screen? Generally, if the damage is minor, the repair is affordable and easy, and the display is still under warranty or insurance, you should repair it. However, if the damage is major, the repair is expensive and difficult, and the display is out of warranty or insurance, it may be best to replace it.

How to fix an LCD screen without replacing it? If you're not ready to invest in a screen repair kit, there are also some DIY hacks you can try to fix your LCD screen. One of the most popular methods is to use toothpaste to fill in small cracks or scratches. Simply apply a small amount of toothpaste to the damaged area and then use a cloth to gently buff it out.

What causes LCD TV screen damage? Overheating Extreme temperatures can cause broken LCD screens. One example of this is when you place your TV in direct sunlight. It's also risky to place your TV directly under the aircon, where it can cause the screen to become brittle and develop cracks.

Is it worth repairing a 7 year old TV? At 7 years old, a TV is beginning to reach the end of its life. If your older TV only needs a minor repair, then it may be worth investing in it. Is your older TV is significantly more damaged? Then repairs may not be as worthwhile.

How do I connect my phone to my old LCD TV?

What is the cheapest way to make your TV a smart TV? The simplest way to make your television a smart TV is by plugging in a streaming device and connecting it to WiFi. Some of the most popular streaming devices are: Amazon Fire. Apple TV.

Can I replace the LCD screen on my TV? It is possible to replace TV screens, but it usually means replacing the entire display panel. The cost of a replacement screen is almost as high, or higher than the cost of a new TV.

Can a broken LCD TV screen be fixed? If you find yourself facing the unfortunate situation of a cracked screen on your Samsung TV, rest assured, we have all the steps you need for an easy, hassle-free repair. Whether your TV is curved, flat, LCD, LED, QLED, UHD, or Full HD, we have you covered with our tailored advice.

What is the lifespan of an LCD TV? Things You Should Know. LED TVs have the longest life span (11-16 years) with low brightness settings applied. Plasma TVs last only 5-7 years, while LCD screens last 5-10 years. Keep your new TV longer using its Energy Saving mode and a surge protector.

Are LCD TV repairable? Skilled technicians can diagnose and fix the issue, saving you money. LCD TV repair and services can extend the lifespan of your television set. Fixing minor issues promptly can prevent further damage and ensure your TV continues to function optimally. Repairing and servicing LCD TVs is an eco-friendly choice.

Is it cheaper to buy a new TV or replace the screen? Average cost of TV repair TV repair costs \$100 to \$350 on average, depending on the problem. LED TV backlight repair costs \$100 to \$200+. The cost to repair a TV screen is often more than the cost to buy a new, similar TV. The labor cost to repair a TV averages \$60 to \$125 per hour.

What are the disadvantages of LCD TV? LCD TVs are thin and light, but have some disadvantages compared to other display types such as high power consumption, poorer contrast ratio, and inferior color gamut.

Do I need to replace LCD or just screen? The LCD is what lies beneath the glass and is similar to your LCD TV in your living room. Even if the picture looks perfect but touch is intermitted or non responsive in some parts of the screen, the LCD would need to be replaced.

What does a broken LCD screen look like? - Black spots, discolored areas, or blurred sections on the screen. - A screen that stays completely black. - Lines or patterns that aren't simple cracks in the glass. - Lack of touch sensitivity.

How long does it take to fix a broken LCD screen? Every phone screen repair starts with a free diagnostic exam to determine if just the glass is broken or if the LCD is damaged as well. From there, repairs can begin in-store and usually take about an hour.

What to do if your LCD screen is cracked?

Can a broken LCD screen be fixed without replacing? Before you start trying to fix your LCD screen, you need to assess the extent of the damage. If there are only a few small cracks, you may be able to repair them yourself. However, if the entire screen is shattered or no longer displays visuals, replacing the screen may be your only option.

Is it worth replacing the screen on a TV? Often, the cost of repairing a screen is close to the value of the TV itself, making repairs outside of the warranty cost-prohibitive. In some cases, the screen can't be replaced, so you'll need a new TV anyway.

What causes LCD TV screen damage? Overheating Extreme temperatures can cause broken LCD screens. One example of this is when you place your TV in direct sunlight. It's also risky to place your TV directly under the aircon, where it can cause the screen to become brittle and develop cracks.

How to fix a TV screen that has lines?

Can you fix a LCD screen at home? Q1: Can I repair my phone's LCD screen without professional help? A1: Yes, you can repair your phone's LCD screen on your own by following the steps provided in this guide. However, ensure you have the necessary tools and replacement parts before starting the process.

How to fix a cracked screen without replacing it? Glue or resin designed for phone screen repairs can be used to fill in small cracks. Applying the glue or resin carefully and allowing it to dry can help stabilize the screen temporarily.

What to do if your LCD screen is cracked?

Can you fix a TV screen without replacing it? You may already know that you can only repair cracks limited to your screen's surface. But if the cracks have affected the functionality of your TV screen or its internal components, you will not be able to repair it yourself. Either you will get it fixed by a professional or replace your TV.

Can an LCD TV screen be repaired? If you find yourself facing the unfortunate situation of a cracked screen on your Samsung TV, rest assured, we have all the steps you need for an easy, hassle-free repair. Whether your TV is curved, flat, LCD,

LED, QLED, UHD, or Full HD, we have you covered with our tailored advice.

Is a 10 year old TV worth repairing? Don't bother paying for expensive repairs on an old TV. You might end up solving one issue, but a new issue would quickly take its place! You'd save more money buying a new TV! However, if your TV is still younger, such as under 5 years of age, it might be worth paying for a repair.

Is LCD screen repairable? LCD monitors have many complex components, so it's not unusual for them to encounter problems. Most issues short of serious physical damage can be repaired at home. Read the instructions carefully for your own safety, as some repairs may expose you to risk of serious electric shock.

What does LCD damage look like? - Black spots, discolored areas, or blurred sections on the screen. - A screen that stays completely black. - Lines or patterns that aren't simple cracks in the glass. - Lack of touch sensitivity.

Can leaving your TV on all the time ruin it? Leaving your TV on 24/7 would lead to a lot of wasted electricity. This would lead to your energy bills skyrocketing. As well as that, leaving your TV on would also lead to its life being shortened. Subjecting a TV to constant energy without breaks can reduce the lifespan of many of its components.

What does a black line on a TV screen mean? Loose or Damaged Connections
Loose or faulty display connections are often the culprit of horizontal screen lines. Sometimes, unplugging and replugging your HDMI, VGA, or display cable will fix the problem. If reseating your input cable doesn't get rid of the horizontal lines, replacing the cable may do the trick.

How to fix pressure spots on an LCD screen? Warm Micro-Fiber Cloth Method
Begin by dampening the microfiber cloth with water and ensuring it is not excessively wet. Gently rub the affected area in small circular motions. The warmth and slight moisture from the cloth can aid in loosening any particles contributing to the pressure marks.

How much does it cost to fix horizontal lines on TV?

Why you shouldn't build a shipping container home?

Is it really cheaper to build a shipping container home? Yes, shipping containers. According to HomeGuide, the average cost to build and install a container home is \$25,000 to \$250,000. While that's no small chunk of change, it's significantly less than you'd expect to pay for a traditional house in most parts of the country.

How much does it cost to turn a shipping container into a tiny house? Shipping container homes range in size and cost. The average cost to build a shipping container home is around \$10,000 to \$35,000, while larger homes can cost up to \$175,000. The cost of building a container home will also increase based on your desired amenities and materials used.

Are shipping containers good for tiny homes? When it comes to building a tiny home, one of the most affordable options is to use a shipping container. Shipping containers are becoming more popular in the tiny home world as they provide an affordable and versatile option for those looking for a smaller, more sustainable living space.

What is the disadvantage of container houses? Container homes can be hot in the summer and cold in the winter, due to the steel, which is also very good at conducting heat.. In order to keep your home's temperature stable, you may need to budget for some extra work. Resale. Container homes can be difficult to sell .

Are container homes cold in winter? Overall, container homes are well insulated due to the natural insulation properties of steel construction. The addition of insulation materials, compact design, steel as thermal conductors, and renewable energy systems. These features work together to create an energy-efficient, comfortable living space.

How long do shipping container homes last? The lifespan for shipping containers that are used to build houses are even longer because these containers are not only in a friendlier environment but have also been treated and clad as part of the building process. Container homes can easily last well over 50 years with no problem.

How much does a container ship cost? There are several types of cargo ships available in the market, each catering to specific industries and cargo requirements.

Small cargo ships can cost around \$10 million, while larger ones can cost over \$100 million. The size, capacity, and specifications of these vessels vary, and so does their price tag.

How hard is it to build your own shipping container home? If you're an expert contractor (or know one), you can build a shipping container home in a month or two. And it's easy enough that anyone can work with it. They're modular homes. Shipping container homes are easy to modify.

What is a cheaper alternative to a shipping container?

What size are shipping containers for tiny homes? How big are shipping container homes? Generally speaking, most container homes are either 20 or 40 feet long and 8 feet, and 6 inches tall. But within that, you need to leave some space for things like insulation — we recommend about 6 inches per side.

How do you turn a shipping container into a small house?

Is it cheaper to build a tiny home or container home? The cost of tiny homes, container homes, and ADUs can vary widely, depending on factors such as location, materials, and amenities. Container homes are the lowest cost option because the basic structure is already built.

Are shipping container houses worth it? Shipping container homes are durable but may lack the longevity that traditional houses have. A custom container home can last 25–30 years with proper maintenance, but a standard home generally lasts much longer than that, especially considering homes are passed down generations and still stand the test of time.

How safe are shipping container homes? Are container homes safe? Shipping containers are just as safe and secure as traditional homes. Just like a “stick-built” or wood constructed home, the safety of a container home depends on property construction and maintenance, but they are otherwise no less safe than a traditional home.

Do shipping container homes rust? According to containerhomehub.com, rust occurs on shipping containers when they are exposed to moisture and oxygen,

which leads to oxidation (the breakdown of iron-based metals). Rust can weaken the structure of a shipping container home and lead to additional problems, such as leaks and water damage.

Are container homes safe from lightning? Because shipping containers are made of steel, they will become conductors if hit by lightning. However, if a container is grounded, the shell will act as a Faraday shield and the electricity will be conducted around the outside without affecting its contents.

What are the disadvantages of container ship?

What are the negatives of shipping container homes? Shipping container structures are made from heavy steel to transport goods, so they don't feature the necessary accommodations for a traditional living area. Door holes, window holes, and snow on the roof can compromise the structural integrity of your container.

Do container homes get too hot? Hot Climates Shipping containers are typically made from steel which conducts heat very well, but in a hot climate, keeping a container cool is easy with a few smart design choices. Choose a larger-than-necessary roof to extend over the home, shading windows from direct sunlight.

How to insulate a shipping container tiny home? Using Styrofoam as the insulating material doesn't require any build-out of stud walls to secure the panels (as batt insulation does). The panels are glued directly onto the walls of the shipping container or mounted on bars that are flush with the walls, making it the most economical insulation method.

What is the best foundation for a container home? Pier foundations are the most popular choice for shipping container homes for numerous reasons. They are relatively inexpensive, and quick to construct, a pier foundation is comprised of concrete blocks.

How to make a shipping container home last forever?

Are shipping container homes safe in tornadoes? Reasons for those to consider a shipping container storm shelter include living in hurricane-prone regions and/or areas with large quantities of tropical storms and tornadoes. Steel shipping

containers are manufactured to withstand wind, rain, snow, and ice!

What is the cheapest container shipping company?

How long does it take to load a container ship? The time it takes to fully load a container ship can vary greatly depending on various factors, but it typically takes several hours to several days or weeks depending on the size of the ship and the cargo.

How much does it cost to ship a 40 ft container? On average, shipping a 40-foot container can cost anywhere between \$1,500 and \$7,000. These costs depend on various factors, like origin and destination, distance, volume of goods, and current market conditions.

Are container homes a bad investment? Prefab container homes are low-risk investments because they can be considerably cheaper to build and maintain, and may hold their value more so than a traditionally built home.

Why do shipping container homes only last 25 years? Rust is more than an aesthetic concern for your shipping container home. Rust is a significant contributor to shipping container deterioration. It weakens the structural integrity of the container walls and makes them more vulnerable to damage and water intrusion.

Is it healthy to live in a container home? Shipping container homes can be equally safe as traditional homes when proper construction and safety measures are implemented. Despite concerns about toxic chemicals and harmful paint coatings, there are ways to address these issues.

Why don't people live in shipping containers? Containers are usually coated with lead-based paint to withstand the salty air and water in the oceans. They can be toxic to your health. This is one of the reasons why a lot of shipping container home building companies are using brand new containers instead of using the older unused containers as they are very toxic.

What is the best state to build a container home?

Do container homes lose value? Investing in shipping container homes can be profitable. They can be cheaper to build and maintain than traditional homes, and

they may hold their value well. Are there any resale value considerations for shipping container homes? Container homes are reported to maintain a high resale value, often 100% or more.

Are shipping container homes safe in tornadoes? Reasons for those to consider a shipping container storm shelter include living in hurricane-prone regions and/or areas with large quantities of tropical storms and tornadoes. Steel shipping containers are manufactured to withstand wind, rain, snow, and ice!

Will shipping container homes rust? Container homes are no different—they are at risk of rusting if they are not handled carefully. As with many things, prevention is the first—and best—step in solving a problem. Most shipping containers are made from COR-TEN steel, which is strong, durable, and resistant to corrosion.

Can a container home last 100 years? The life expectancy of a heavily used container house is around 10-15 years with good maintenance. Infrequently used container homes can be used for up to 25 years, after which they can no longer be used.

How many shipping containers fall off each year? According to a World Shipping Council (WSC) report, up to 1,382 shipping containers are lost at sea each year. The figure is based on three year averages calculated over a 12-year period – which represents 80% of the global vessel container capacity.

What are the negatives of shipping container homes? Shipping container structures are made from heavy steel to transport goods, so they don't feature the necessary accommodations for a traditional living area. Door holes, window holes, and snow on the roof can compromise the structural integrity of your container.

Do container homes get hot? Hot Climates Shipping containers are typically made from steel which conducts heat very well, but in a hot climate, keeping a container cool is easy with a few smart design choices. Choose a larger-than-necessary roof to extend over the home, shading windows from direct sunlight.

How safe is it to live in a shipping container? Shipping containers are just as safe and secure as traditional homes. Just like a “stick-built” or wood constructed home, the safety of a container home depends on property construction and maintenance,

but they are otherwise no less safe than a traditional home.

What is the problem with container shipping? This is a stark reminder of the central role of ports in the supply chain and how easily things can go off track. During Covid, when containerized supply chains experienced their worst disruption since the first container ships sailed in the late 1950s, the core problem was congestion at ports.

Do shipping containers get struck by lightning? Shipping containers are essentially metal boxes. Because shipping containers are made of steel, they will become conductors if hit by lightning.

What is the ceiling height of a container home? The average ceiling height in our container home units is approximately 8'4".

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