

# Ap human geography chapter 2 population outline

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**What percent is a 5 on AP Human Geography?** 75% or more = 5.

**What is unit 2 of AP Human Geography about?** Unit 2: Population and Migration Patterns and Processes You'll explore the patterns associated with human populations. Topics may include: Population density and how it affects society and the environment. Theories of population growth and decline.

**What are the concepts of population in AP Human Geography?** There are three basic patterns of population distribution: they can equally-spaced apart (uniform dispersion), randomly spread out with no predictable pattern (random dispersion), or bunched in groups (clumped dispersion).

**Why is understanding population growth, distribution, and migration important in human geography?** Understanding how the human population is organized geographically helps us make sense of cultural patterns, the political organization of space, food production issues, economic development concerns, natural resource use and decisions, and urban systems.

**Is getting a 4 on AP HUG good?** On the AP HUG examination, a score of 4 or 5 is regarded as outstanding. Always verify the minimum requirements of the colleges you intend to apply to.

**Is a 5 a perfect AP score?** As the table below shows, each AP exam is scored on a scale of 1-5, with 5 being the highest possible score.

**Is AP Human Geography hard?** AP Human Geography is widely recommended as an introductory-level AP course. Students tend to regard the course content as "easy," while the exam is difficult. Historically, the majority of students earn the lowest possible score on this exam.

**What is a good grade in AP Human Geography?** A good score on the AP Human Geography exam is generally considered to be a 4 or 5 out of a possible 5 points. These scores indicate that you have a strong understanding of the subject material and would likely receive college credit or advanced placement at many institutions.

**Does AP Human Geography matter?** And like all AP courses, AP Human Geography can help you stand out during the college application process and gives you the opportunity to earn college credit, advanced placement, or both. Learn about all the benefits of taking AP courses and exams.

**What is the population structure in human geography?** Population structure is the breakdown of different groups and amounts of people in an area. It is important as it affects the area itself. There are 4 main characteristics of the population structure: age, gender, ethnicity, and density.

**What is the J-curve AP human geography?** J-curve: This is when the projection population show exponential growth; sometimes shape as a j-curve. This is important because if the population grows exponential our resource use will go up exponential and so will our use as well as a greater demand for food and more.

**What is the population of AP?** The last census of Andhra Pradesh was done in 2011 and the next census of 2021 is postponed until 2024. The current estimated population is approximately 9.46 Crores.

**What is unit 2 of AP Human Geography?** In AP® Human Geography, unit 2 covers population & migrations. The following guide will be updated periodically with hyperlinks to excellent resources. As you are reviewing for this unit, focus on the key concepts!

**What is a population distribution example?** Population distribution is also uneven within a country. Locations with favourable conditions are generally more densely populated compared to those in more challenging environments. For example, North

Wales has a lower population density than South Wales.

**What are the major components of population growth?** The main components of population change are births, deaths, and migration. “Natural increase” is defined as the difference between live births and deaths. “Net migration” is defined as the difference between the number of people moving into an area and the number of people moving out.

**How rare is a 5 on AP?** As you can see, while at least 5% of test takers scored a 5 on each AP exam, the perfect scores are teeny, teeny, teeny percentages.

**What is the easiest AP class?**

**What is the hardest AP to get a 5 on?**

**Can you get a 0 on an AP exam?** Hi there! Definitely not a weird question—it's good to understand all aspects of the AP exams, especially when stress is running high. To answer your question directly, no, you can't score a literal zero on an AP test; the scores range from 1 to 5.

**Is a 70% a 5 on the AP exam?** Usually, a 70 to 75 percent out of 100 translates to a 5. However, there are some exams that are exceptions to this rule of thumb. The AP Grades that are reported to students, high schools, colleges, and universities in July are on AP's five-point scale: 5: Extremely well qualified.

**Is a 3 an OK AP score?** Many U.S. colleges grant credit, advanced placement, or both for scores of 3 and higher. Earning credit means that a college offers you a specific number of college credits for your score, which counts toward the total needed for your degree.

**What is the fail rate for AP Human Geography?** As you can see, about half the students fail the AP® Human Geography exam each year. This higher failure rate is likely due to the fact that this is the very first AP® exam many students take.

**How to not fail AP Human Geography?**

**Is AP Human Geo worth it?** AP Human Geography is definitely worth taking. It's extremely useful as an AP social science, like Psych ? or US Gov ???? Even if you

are considering going into STEM , this is still a useful class! If you start to find it difficult, don't get discouraged!

**What percent correct is a 5 on an AP exam?** Usually, a 70 to 75 percent out of 100 translates to a 5. However, there are some exams that are exceptions to this rule of thumb.

**What percent is a 5 on AP World?** To achieve a 5 on the AP World History exam, you'll generally need to score around 70-75% of the total possible points. However, this can vary slightly each year based on the difficulty of the exam and the performance of the test-takers.

**What is a 5 in AP equivalent to?**

**What is Unit 5 of AP Human Geography?** Unit 5 – Agriculture & Rural Land-Use  
5.0. Unit 5 Overview: Agriculture and Rural Land-Use Patterns and Processes. 7 min read.  
5.1. Introduction to Agriculture.

**What is a 69 on an AP exam?** As a general guide, though, you can consider roughly more than 70% correct as being in the 5 range, 50-69% for a score of 4, 40-49% for a score of 3, 30-39% for a 2, and below 30% would likely be a 1. Again, these ranges are approximations and can vary by subject and by year.

**Is it possible to get a 0 on an AP exam?** To clarify, it's quite rare and quite difficult to get a score of 0 on an AP exam. Typically, scores range from 1 to 5, with 1 being the lowest possible score that indicates the student likely wasn't prepared for the level of the content on the exam.

**Are AP tests curved?** AP test scores are indeed "curved," but it's more accurate to call it a "scaling process." Instead of a traditional curve that compares your performance to other students' performance, the AP exam scaling process converts your raw score (the number of points you earned through multiple-choice questions and free- ...

**Which AP exam is the easiest?**

**Is Apush harder than AP World?** Compared to AP World History and AP European History: APUSH is often considered tougher than AP European History but on par

with or slightly less demanding than AP World History. The latter covers a broader scope of history, making the amount of content slightly more overwhelming.

**What AP exam has the lowest pass rate?** 1) AP Physics 1 In addition, it has the lowest overall pass rate of any AP exam. Students undertake laboratory work (which they are encouraged to save, as colleges may request to see it before granting credit) while completing extensive work in seven subjects, such as kinematics, energy, and harmonic motion.

**Should I send my AP score if I got a 3?** The first thing that you should do is check the AP Score credit policy for the colleges that you are applying to. If they will give you credit for the 3, then by all means, report it! On the other hand, if they only give credit for a 5 on that exam (not even for a 4), you may want to hold off.

**Is a 3 a bad AP score?** A score of 3 on an AP exam is considered passing, and while it may not be the most impressive score, it won't necessarily harm your application either.

**Should I retake an AP exam if I got a 3?** If you score a 3 or above on an AP test a retake unless you're absolutely set on earning college credit for your work. Ultimately, your AP score will have minimal impact on your admission chances unless you're applying to the most selective colleges with 1s and 2s.

**Is a 5 on APHG good?** A 3, 4, or 5 on an AP® exam is considered a passing score, with 3 described as “qualified”, 4 as “well qualified” and 5 as “extremely well qualified.” It is important to note that many universities will offer college credit for a passing score on an AP® exam, but be sure to verify with the AP® credit policy of any ...

**How hard is AP Human Geography?** AP Human Geography is often labeled as moderately to highly difficult, primarily for its unique course content. While the concept of human geography may seem foreign to many students, chances are they've already explored some of the course's tenets on their own.

**How many people get a 5 on AP Human Geography?** The 2023 AP Human Geography scores: 5: 16%; 4: 20%; 3: 18%; 2: 14%; 1: 32%. Very inspiring work here by these teachers, who expanded access to 27,000 more students . . . and

achieved the highest scores yet posted for this subject!

## **Thermodynamics: An Engineering Approach, 5th Edition**

### **Solution Manual**

#### **Question 1:**

A rigid vessel contains 20 kg of water at 1 bar and 100°C. If the water is heated to 150°C, what is the pressure in the vessel?

#### **Answer:**

Using the steam tables, we find:

$$P_1 = 1 \text{ bar}, v_1 = 0.1944 \text{ m}^3/\text{kg} \quad P_2 = ?, v_2 = 0.3085 \text{ m}^3/\text{kg} \text{ (at } 150^\circ\text{C)}$$

Since the volume is constant, the mass remains the same. Therefore, the pressure can be calculated using the ideal gas law:

$$P_2 = P_1 (v_1 / v_2) = 1 \text{ bar} (0.1944 \text{ m}^3/\text{kg} / 0.3085 \text{ m}^3/\text{kg}) = 0.630 \text{ bar}$$

#### **Question 2:**

A piston-cylinder contains 0.5 kg of air at 150 kPa and 25°C. The air is compressed to 800 kPa while heat is transferred to keep the temperature constant. Determine the work done by the air.

#### **Answer:**

Using the ideal gas law, we find:

$$V_1 = 0.658 \text{ m}^3/\text{kg}, P_1 = 150 \text{ kPa} \quad P_2 = 800 \text{ kPa}, V_2 = ? \text{ (unknown)}$$

Since the temperature is constant, we have:

$$P_1 V_1 = P_2 V_2$$

Solving for  $V_2$ , we get:

$$V_2 = P_1 V_1 / P_2 = 150 \text{ kPa} \cdot 0.658 \text{ m}^3/\text{kg} / 800 \text{ kPa} = 0.127 \text{ m}^3/\text{kg}$$

The work done by the air is:

$$W = -P \Delta V = -800 \text{ kPa} \cdot (0.127 \text{ m}^3/\text{kg} - 0.658 \text{ m}^3/\text{kg}) = -42 \text{ kJ/kg}$$

Therefore, the total work done by the air is:

$$W_{\text{tot}} = m \cdot W = 0.5 \text{ kg} \cdot 42 \text{ kJ/kg} = 21 \text{ kJ}$$

### Question 3:

A heat pump operates on a Rankine cycle between 4°C and 90°C. The heat source for the heat pump is a solar collector, and the heat sink is the surrounding air. Determine the thermal efficiency of the heat pump.

### Answer:

The thermal efficiency of a heat pump is given by:

$$\eta = Q_h / W_h$$

where  $Q_h$  is the heat absorbed from the heat source and  $W_h$  is the work done by the compressor.

From the Rankine cycle, we have:

$$Q_h = Q_{2-3} = h_3 - h_2 \quad W_h = W_{1-2} = h_2 - h_1$$

Therefore, the thermal efficiency becomes:

$$\eta = Q_h / W_h = (h_3 - h_2) / (h_2 - h_1)$$

Using steam tables, we find:

$$h_1 = 167.53 \text{ kJ/kg}, h_2 = 212.94 \text{ kJ/kg}, h_3 = 425.55 \text{ kJ/kg}$$

Substituting these values, we get:

$$\eta = (425.55 \text{ kJ/kg} - 167.53 \text{ kJ/kg}) / (212.94 \text{ kJ/kg} - 167.53 \text{ kJ/kg}) = 40.6\%$$

**Question 4:**

A Carnot engine operates between temperatures of 300 K and 600 K. What is the efficiency of this engine?

**Answer:**

The efficiency of a Carnot engine is given by:

$$\eta = 1 - Q_c / Q_h = 1 - T_c / T_h$$

where  $Q_c$  is the heat rejected to the cold reservoir and  $Q_h$  is the heat absorbed from the hot reservoir.

Substituting the given temperatures, we get:

$$\eta = 1 - T_c / T_h = 1 - 300 \text{ K} / 600 \text{ K} = 50\%$$

**Question 5:**

A refrigerator operates on a reversed Carnot cycle between temperatures of 4°C and 30°C. The refrigerator consumes 200 W of electrical power. What is the rate of heat removal from the refrigerator?

**Answer:**

The rate of heat removal from a refrigerator is equal to the work done by the compressor, which is given by:

$$W = Q_c / (1 - \eta)$$

where  $Q_c$  is the heat rejected to the cold reservoir and  $\eta$  is the efficiency of the refrigerator.

The efficiency of a reversed Carnot cycle is given by:

$$\eta = 1 - T_c / T_h$$

Substituting the given temperatures, we get:

$$\eta = 1 - 4^\circ\text{C} / 30^\circ\text{C} = 0.87$$



Therefore, the rate of heat removal from the refrigerator is:

$$W = Q_c / (1 - \beta) = 200 \text{ W} / (1 - 0.87) = 1560 \text{ W}$$

## **Top Crypto Mining Executive Explains Why We're Hoarding**

### **Q: Why are crypto miners hoarding their coins?**

**A:** Several key factors are driving the hoarding behavior among crypto miners. Firstly, the uncertain regulatory environment surrounding cryptocurrency makes it challenging to convert digital assets into fiat currency. Miners are concerned about potential regulatory actions that could hinder their ability to sell their mined coins.

### **Q: What impact does this hoarding have on the market?**

**A:** The hoarding of mined coins by miners reduces the supply of cryptocurrency available in the market. This limited supply can lead to price volatility and increased demand, potentially driving up the value of digital assets. Furthermore, it can create artificial scarcity, further fueling price speculation.

### **Q: How does hoarding affect miners financially?**

**A:** While hoarding may initially drive up prices, it can also have long-term financial implications for miners. By not selling their mined coins, miners miss out on potential profits. Additionally, if the price of cryptocurrency falls significantly, miners may face losses on their unsold holdings.

### **Q: What are the benefits of hoarding for miners?**

**A:** Hoarding can provide miners with several benefits. It allows them to accumulate a larger inventory of coins, which can be sold later at potentially higher prices. Additionally, by holding onto their coins, miners can avoid the risk of losing value due to price fluctuations.

### **Q: What are the risks associated with hoarding?**

**A:** Hoarding cryptocurrencies also comes with its share of risks. The value of digital assets is highly volatile, and sudden market sell-offs can lead to significant losses. Moreover, the regulatory environment remains uncertain, and any changes in

regulations could negatively impact the value of hoarded coins.

### **What is the spec of Honda CGL 125?**

**Where is the engine number on a Honda CG 125?** The engine serial number is stamped into the side of the engine. All Honda engine serial numbers have a 4 or 5 letter prefix followed by a 7 digit number.

**How many kilometers per liter is a Honda CG 125?** In its old models, Honda 125 mileage per liter 35-40. But the new Honda 125 fuel average is 40+ km/l (as per different customer reviews).

### **How fast does a Honda CG 125 go?**

**Is Honda 125cc good?** With their manageable power and lightweight design, 125cc bikes provide a safe and confidence-building experience on the road. Honda 125cc bikes are known for their exceptional fuel efficiency, allowing you to save money on petrol.

**What is the top speed of Honda Mode 125?** Just about hits 70mph if needed.

**How many gears does a Honda CG 125 have?** The layout on the older Honda CG 125 brought new depth to the word 'basic. ' Later Honda CG 125 parts include a much better saddle, mirrors, disc rather than drum front brake, plus a five speed gearbox instead of just four speeds.

### **What stroke is a CG 125 engine?**

**How to know Honda 125 model?** Locate the 17-digit Vehicle Identification Number (VIN) printed on the frame of your Honda motorcycle. This is often stamped onto the right side of the steering head, where the front fork is mounted on the frame. The VIN is also imprinted on a metal tag located on the left side of the frame above the motor.

**How many Litres is a Honda 125 full tank?** The fuel tank capacity of SP 125 is 11.2 L.

**What does the CG 125 stand for?** The Honda CG 125, more commonly known as "125" in Pakistan is a commuter motorcycle manufactured by the Japanese company

Honda. The CG in 125 stands for Cash Guarantee. It was introduced in Japan in 1976 and was produced till 2008. Its production shifted to Pakistan in 1992.

**How fast is a Honda 125 go?** A 125cc dirt bike generally hits a top speed of 60 mph. Consider this a top speed when racing Motocross or riding trails on a hardpack straightaway - the ideal setting for a dirt bike. However, if you must, on paved roads expect to hit close to 70 mph.

**What is the meaning of cg in motorcycle?** The center of gravity of an object is denoted by the circle/cross symbol. A typical motorcycle's CG is located midway between the front and rear axles, and each wheel supports half the motorcycle's weight (top).

**Is the cg 125 the same as the tmx 125?** Honda TMX 125 Alpha The motorcycle is essentially a rebadged Honda CG125. The TMX Alpha features a 124.11 cc four stroke, air-cooled OHV engine mated to a five-speed transmission instead of four, and it is started by an electric starter and a kick starter with decompression function.

**What is the meaning of 125 cc?** What does 125cc mean? The cc stands for cubic centimetres. It's a measurement of the size of the engine chamber and helps describe how powerful a bike is with the lower the cc meaning the lower the power that the bike creates.

**Is 125cc good for long drive?** For a 125cc bike the happiest cruising speed is 60 kilometer per hour to 70 kilometer per hour maximum. With this cruising speed we can ride bikes non stop.

**How long does a 125cc engine last?** Nonetheless, any motorcycle with over 40,000 miles has high mileage. With proper care and driving, a motorcycle's engine may last for more than 80,000 miles before it needs to be replaced. However, some fundamental rules might give you an idea of what to anticipate.

**Which 125cc bike is best for daily use?** Among the 125 cc bikes in India, the Hero Super Splendor Xtec offers a high mileage of up to 83.2 kmpl. Which 125 cc bike is best for daily use? The Hero Super Splendor, Honda CB Shine, and Honda SP 125 are some of the best 125 cc bikes in India for daily use.

**What is the rpm of Honda 125?** What is the maximum RPM of a 100cc-125cc Honda Activa engine? - Quora. The answer is 6500 rpm. It also depends on the governor settings , but the rated allowable rpm is 6500rpm . Keeping in mind the vibrations and engine efficiency.

**What is the top speed of 125cc in km h?** How fast is 125cc? Most production 125cc motorcycles have top speeds of 90-115 kmph (about 60-70 mph).

**How fast can a Honda CG 125 go?** Given the fact that it is a 125 and makes at the most 14 bhp it is a good engine and a reliable engine. It will pull all the way up to 60 - 65 mph and sit there all day. But it won't surprise you as far as performance is concerned. It's quick to 30 - 40 mph then struggles from there.

**What is the spec of Suzuki 125cc?**

**What is the difference between Honda 125 and 6G?** The main difference between Activa 6G and Activa 125 is the engine capacity. The Activa 6G gets a 110cc engine, whereas the Activa 125 gets 125cc engine. With a bigger engine capacity, the Activa 125 produces slightly more power and torque. Owing to these reasons, the Activa 125 costs more than the Activa 6G.

**How much horsepower is Honda 125?**

**What is the speed of Honda 125 scooter?** The Honda PCX 125 can reach speeds of up to 67mph.

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