

CHAPTER 13 STATES OF MATTER

ANSWER KEY

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What is the state of matter answer? In physics, a state of matter is one of the distinct forms in which matter can exist. Four states of matter are observable in everyday life: solid, liquid, gas, and plasma.

What are the three states of matter worksheet answers? They fill available space (slight attraction between particles). They are very compressible (particles are widely spaced). There are three states of matter: solid; liquid and gas.

Is the kinetic energy of all the particles in a given sample of matter the same? At any given temperature, not all of the particles in a sample of matter have the same kinetic energy. Instead, the particles display a wide range of kinetic energies. Most of the particles have a kinetic energy near the middle of the range.

Can another gas flow into a space fully occupied by another gas? Answer and Explanation: The process by which a gas spreads through a space occupied by another gas is called diffusion. Gas molecules are constantly moving so they can move around through space. They tend to spread out in a container if there is a concentration gradient in the container.

What are the states of matter answer keys? Three states of matter exist—solid, liquid, and gas. Solids have a definite shape and volume.

What is matter short answer? Anything that has mass and occupies space is called matter. A matter is made up of tiny particles called atoms. There are three states of matter. Solid, liquid, and gas. For example, table, chair, air, water, honey, etc.

Why does matter matter answer? Answer and Explanation: Matter matters because everything is made up of matter. It is important to know what matter things are made out of so that we can know their properties. Similarly, matter is made up of atoms. It is the atoms that give matter its properties.

What are 3 main states of matter? Solids, liquids and gases are three states of matter. In solids, the particles are tightly packed together. In liquids, the particles have more movement, while in gases, they are spread out. Particles in chemistry can be atoms, ions or molecules.

Is it a solid, liquid, or gas? Solid is the state in which matter maintains a fixed volume and shape, liquid is the state in which matter adapts to the shape of its container but varies only slightly in volume, and gas is the state in which matter expands to occupy the volume and shape of its container.

Which state of matter most easily expands?

Which states of matter can flow? Fluids (Liquids and Gases) Liquids and gases are called fluids because they can be made to flow, or move.

What are two characteristics of gases?

Why do lighter molecules move faster? Because of the molecular motion of molecules, they possess kinetic energy at all temperatures above absolute zero. Temperature is directly proportional to the average kinetic energy of gas molecules. Lighter gases will have higher velocities than heavier gases, at the same temperature and pressure.

How does molar mass affect effusion? The rate of effusion of a gaseous substance is inversely proportional to the square root of its molar mass. Thus the rate at which a molecule, or a mole of molecules, diffuses or effuses is directly related to the speed at which it moves.

Does gas attract gas? The gas molecule do not interact with each other except for colliding with each other. Gases expand to completely fill a container; they would not if they were attracted to each other.

Why do gases exert pressure? In gaseous state, the particles move randomly. So, sometimes they hit each other and the walls of the container. The pressure exerted by the gas is because of the force exerted by the gas particles on the walls of the container.

What properties distinguish solids from liquids, liquids from gases, solids from gases? A solid has definite volume and shape, a liquid has a definite volume but no definite shape, and a gas has neither a definite volume nor shape.

What can flow upward? For instance, a wave on a beach can flow uphill, even if it's for just a moment. Water in a siphon can flow uphill too, as can a puddle of water if it's moving up a dry paper towel dipped in it. Even more curiously, Antarctica has a river that flows uphill underneath one of its ice sheets.

What are the 22 states of matter?

What is matter made of? Matter on Earth is in the form of solid, liquid, or gas. Solids, liquids, and gases are made of tiny particles called atoms and molecules. In a solid, the particles are very attracted to each other. They are close together and vibrate in position but don't move past one another.

Why is it called matter? Based on elementary fermions (mass, volume, and space) A common or traditional definition of matter is "anything that has mass and volume (occupies space)". For example, a car would be said to be made of matter, as it has mass and volume (occupies space).

What describes the state of matter? Solids, liquids and gases are three states of matter. In solids, the particles are tightly packed together. In liquids, the particles have more movement, while in gases, they are spread out. Particles in chemistry can be atoms, ions or molecules.

Which state of matter is matter? The four natural states of matter are: Solids, liquids, gases and plasma. Bose-Einstein condensates, however, are only made in the lab. Other exotic states of matter can also be manufactured under extreme conditions in a lab, such as fermionic condensates and time crystals.

What are the 5 states of matter? States of matter are the categories in which the matter is divided on the basis of their physical properties which they represent. We can divide them into five states of matter which are solid, liquid, gas, plasma, Bose-Einstein condensate.

Are humans liquid or solid? Examples of solids within our body include our bones and musculature. Simultaneously, our body holds various liquids such as our blood and bone marrow. Finally, the gasses of our digestive tract and the oxygen stored in our lungs are good examples of gasses in our bodies.

How to answer IB business exam questions?

What is the average score for IB business management? You can read the IB's initial post-results communication [here](#), including some key statistics: The worldwide average Diploma score for the May 2021 session is 33.02 points, up from 31.34 in May 2020 and 29.62 (the last time external exams were taken).

What do you do in IB business management? The course empowers students to think critically and strategically about individual and organizational behavior; promotes awareness of environmental, social, and ethical factors in business; explores organizations across sectors and socio-cultural and economic contexts; and develops student understanding of the ...

How long is IB Business Management Paper 2? Paper 2. Paper 2 includes a few shorter case studies in Sections A and B, and an essay about business concepts in Section C. In Paper 2, Section C is required for both SL and HL students. For SL students, Paper 2 lasts for 1 hour and 45 minutes and the weighting is 40% of the total grade.

Is it hard to get a 7 in IB business? Key Takeaways. Hard work and focus are necessary to achieve a 7 in IB Business Management. Practicing past papers and understanding the exam structure and command terms are important for success. Keeping up to date with industry news and reading about an industry of interest can provide valuable exam materials.

What is a fail in IB exam? FAILING CONDITIONS: A student will NOT receive an IB Diploma if one or more of the following occur: CAS requirements have not been

met. Candidate's total exam & core points are fewer than 24. An N has been given for theory of knowledge, extended essay or for a contributing subject.

Is 27 a bad IB score? What is a good IB score? A good IB score is subjective and depends on individual goals and aspirations. However, a score of 30 or above is generally considered to be a good IB score. A score of 30 points places a student in the 50th percentile, meaning they performed better than 50% of all IB candidates worldwide.

What IB score do you need for Ivy League? Unlike their UK counterparts, US universities don't release official cut-off scores for the IB Diploma. Based on what the Oxbridge universities in the UK expect from IB applicants, an overall grade of 38+ would be well received by the Ivy Leagues. For the more selective universities, you're looking at around 40+.

What IB score does Harvard want? Harvard University's IB score range is 39-44. While a high score can enhance your application, Harvard also looks for students who can contribute to their diverse community in unique ways.

Is IB business difficult? Conclusion: Since the IB curriculum is extensive and rigorous, achieving a 7 in IB Business is undoubtedly challenging. Also, the multifaceted nature of the course and the high standards set by the IB program make it overwhelming.

Is IB economics or business better? IB Business focuses more on analysis, writing style, and case studies. For students applying for Mathematical and Economics related subjects, going for IB Economics may be more appropriate in showing your interests and strengths in graphical and Mathematical skills.

What are the 4 functions of business IB? Analyse the main business functions: human resources, finance and accounts, marketing and operations. Explain the nature of business activity in the primary, secondary, tertiary and quaternary sectors.

Is IB Year 1 or 2 harder? IB Year 1 vs IB Year 2 Year 2 of IB is relatively more challenging as you have multiple submissions, final exams, and CAS reflections. Most students pick up their socks in the first year and finish what they can to have a less hectic second year.

Can you pass the IB with a 2? Conditions for achieving the diploma The candidate has achieved at least 24 total points. A grade has been awarded in all subjects, TOK and the EE. A grade of at least a 2 has been awarded in all subjects. There are no more than two grade 2s awarded (SL or HL).

How to get a 7 in IB Paper 2? Scoring a 7 in IB English Paper 2 requires thorough preparation, clear and structured writing, and a deep understanding of the texts. By following these strategies and dedicating time to practice, you can achieve top marks and excel in your literary analysis.

Is 70% a 6 in IB? 6 was awarded for 57-70 points in 2022 and 64-76 in 2023, and so on. Hence, we can't objectively compare 2023 IB results with recent years.

Is 37 a bad IB score? Generally, an IB score of 38 and above is considered equivalent to AAA* at A-Level, which is often the requirement for entry into top-tier universities. A score of 34-37 in the IB is roughly equivalent to AAA at A-Level, and so forth. These comparisons are approximations and can vary by subject and university.

Is 5 out of 7 good in IB? IB grades are typically equivalent to certain numerical scores for academic purposes: A grade of 7 is equivalent to an A+ or 97-100% A grade of 6 is equivalent to an A or 93-96% A grade of 5 is equivalent to a B or 85-92%

Is IB harder than ap? Some students argue that IB is more challenging because of the emphasis on critical thinking and the more application-focused evaluations. However, both IB and AP classes are considered college-level courses that many students find challenging.

Is 32 a good IB score? A total score in the 40s will make you a more competitive candidate academically (note: a lot of non-academic factors are at play), but a 38+ is considered a good IB score. If you're aiming for the Ivies, you certainly don't want to be dipping below the 36 mark.

Do colleges really care about IB? US colleges love good grades, but what they love even more is to see that you've pushed yourself to get them. Universities appreciate the IB's rigour and they know it takes hard work and dedication to perform

well, particularly in Higher Level (HL) subjects.

How to answer 6 markers in business IB? For a 6 marker, you should be developing 2 distinct points, totalling 4 marks, and then providing a well reasoned evaluation as a conclusion for the last 2 marks. For the two distinct points, it is important to read the question carefully as it may not be simply a point for and against a certain topic.

How to answer business exam questions?

How to write a 10 marker in IB business? Assume that on a Paper 2 of the IB exam, you get a 10 mark question that says, “Discuss whether the company should continue producing X.” In order to get 10 marks, you will need to evaluate at least two reasons for continuing production of X, and two reasons against, and come to a conclusion that flows directly from ...

How can I pass the IB exam? Take advantage of online resources such as IB-approved textbooks, revision websites, and YouTube channels to supplement your learning and gain a deeper understanding of difficult topics. Don't forget to take breaks and prioritize self-care, especially during the stressful exam season.

The Practice of Statistics 4th Edition: Chapter 1 Questions and Answers

Key Question 1:

What is a statistic?

Answer:

A statistic is a number that summarizes a sample.

Key Question 2:

What is the difference between a variable and a parameter?

Answer:

A variable is a characteristic of a population. A parameter is a number that describes a variable.

Key Question 3:

What is sampling bias?

Answer:

Sampling bias occurs when a sample is not representative of the population it is supposed to represent.

Key Question 4:

What is the relationship between the sample size and the sampling error?

Answer:

The larger the sample size, the smaller the sampling error.

Key Question 5:

What are the four types of sampling methods?

Answer:

1. Simple random sampling
2. Stratified random sampling
3. Cluster sampling
4. Systematic sampling

How to solve flow chart aptitude questions? To solve flow chart aptitude questions, follow these steps: 1) Carefully read and analyse the given problem and chart, noting inputs, outputs and operations. 2) Identify any patterns, repeating steps or formulae within the chart. 3) Apply the flow chart's process to the given input values.

What is a flowchart in logical reasoning? The flowchart shows the steps as boxes of various kinds, and their order by connecting the boxes with arrows. This diagrammatic representation illustrates a solution model to a given problem. Flowcharts are used in analyzing, designing, documenting or managing a process or program in various fields.

What is a flowchart in computer pdf? FLOWCHART. The flowchart is a diagram which visually presents the flow of data through processing systems. This means by seeing a flow chart one can know the operations performed and the sequence of these operations in a system. Algorithms are nothing but sequence of steps for solving problems.

Is a flowchart a representation of an algorithm mcq? In computer science, algorithm refers to a pictorial representation of a flowchart. Explanation: The statement is false. The correct statement would be: In computer science, flowchart refers to a pictorial representation of an algorithm.

What is the trick to solve aptitude questions?

How to solve aptitude questions in 1 minute?

What is flowchart in problem solving? A flowchart is a diagram depicting a process, a system or a computer algorithm. It is a diagrammatic representation of the solution to a given problem but, more importantly, it provides a breakdown of the essential steps to solving the problem.

What is flowchart and example? A flowchart is a picture of the separate steps of a process in sequential order. It is a generic tool that can be adapted for a wide variety of purposes, and can be used to describe various processes, such as a manufacturing process, an administrative or service process, or a project plan.

What are the five flowchart? The oval, rectangle, diamond, parallelogram and arrow are the basic process flowchart symbols. The oval represents the start and end. The rectangle represents any step in the process, like tasks or actions. The diamond symbol indicates a decision.

What is the difference between algorithm and flowchart? An algorithm is a step-by-step procedure or a set of rules for solving a specific problem or completing a specific task. It is a sequence of well-defined instructions. A flowchart is a graphical representation of an algorithm. It uses different symbols to represent different types of instructions or steps in a process.

What are three examples of algorithms?

How to make a flowchart of an algorithm?

Can you make a flowchart in Word? In Microsoft Word, PowerPoint, or Excel, you have two options for creating flowcharts. You can either use SmartArt or Shapes from the Insert tab. Within SmartArt, you'll find an array of graphic options to choose from. Process is usually a good option for flowcharts, but the choice is yours.

What are the disadvantages of algorithms?

What does an oval mean in a flowchart? The oval, or terminator, is used to represent the start and end of a process. Use the Gliffy flowchart tool to drag and drop one of these bad boys and you've got yourself the beginning of a flowchart. Remember to use the same symbol again to show that your flowchart is complete.

What is the easiest way to learn aptitude?

How to crack aptitude test easily?

Which app is best for aptitude test answers? IndiaBIX. One of the top apps to test and enhance your aptitude in 2024 is IndiaBIX, which stocks something for all. Whether you are preparing for a competitive exam, job interview, or entrance test, IndiaBIX can serve great!

What is the fastest way to solve an aptitude question?

What is the most common aptitude test? Cognitive ability tests are one the most common aptitude tests used today. These tests usually consist of numerical, verbal, abstract, and logical reasoning questions.

Which is the best website to get answers for aptitude test? IndiaBIX provides you with numerous aptitude questions and answers with explanations. Fully solved problems with detailed answer descriptions and explanations are given and will be easy to understand.

What are the 7 steps of problem-solving flowcharts?

What is algorithm and flowchart pdf? An algorithm is a step-by-step analysis of the process, while a flowchart explains the steps of a program in a graphical way.

Algorithm and flowcharts helps to clarify all the steps for solving the problem.

What are the 4 main flowcharts? There are 8 main types of flowcharts. They include: 1) Process flowchart, 2) Decision flowchart, 3) Workflow flowchart, 4) Swimlane flowchart, 5) Use case flowchart, 6) EPC flowchart, 7) System or program flowchart, and 8) Data or document flowchart.

How to make an algorithm flowchart? Build connections by clicking the line tool and dragging lines onto the document. Add text by double-clicking on a shape or line. Click the Share button to send your Algorithm flowchart to team members, or invite others to collaborate on your document.

What is the easiest way to create a flowchart? The easiest way to create a flowchart is by utilizing a dedicated flowchart maker, such as Visme. However, you can also create a basic flowchart using software like Microsoft Word or PowerPoint.

How do I create a process flow chart example?

How to answer flow chart questions?

How do you solve a flowchart problem?

How do you solve aptitude code questions?

How do you solve aptitude series questions?

How to do an algorithm and flowchart?

How to complete a flow chart?

What does algorithm and flow chart help us to answer? Algorithm and flow chart helps us to specify the problem completely and clearly that before doing the coding how should we proceed and what all steps should be included. Algorithm is a procedure or formula for solving problem, based on conducting a sequence of specified actions.

What is a common mistake in a flowchart? Flowchart Style Mistakes Uneven flowchart symbol sizes: When possible, make all your flowchart symbols the same height and width. If that's not feasible, then consider making the symbol widths the

same and varying the heights for top-to-bottom flowcharts, and vice-versa for left-to-right flowcharts.

What is the first step in the problem-solving flow chart? To start your problem-solving flowchart, follow these steps: Draw a starting shape to state your problem. Draw a decision shape where you can ask questions that will give you yes-or-no answers.

What is algorithm and flowchart pdf? An algorithm is a step-by-step analysis of the process, while a flowchart explains the steps of a program in a graphical way. Algorithm and flowcharts helps to clarify all the steps for solving the problem.

What is the fastest way to solve an aptitude question?

How to easily answer aptitude test?

How do you solve aptitude and reasoning questions?

How do you solve numerical aptitude questions? Detect – what is the question asking. Observe – separate the relevant from the irrelevant information. Focus – focus on the relevant information and perform the necessary calculations. Eliminate and Solve – use estimations and quick calculation methods to eliminate incorrect answers and solve the question.

How do you solve average aptitude questions?

How to crack aptitude questions?

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