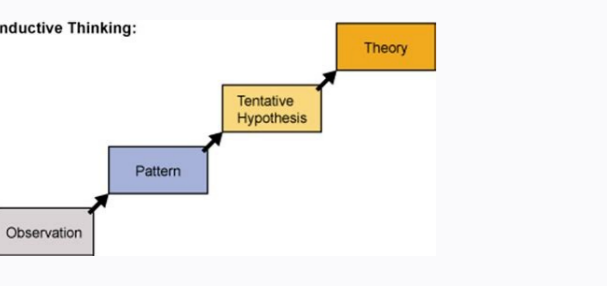
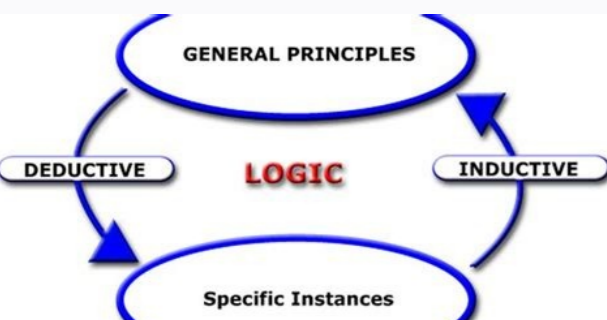
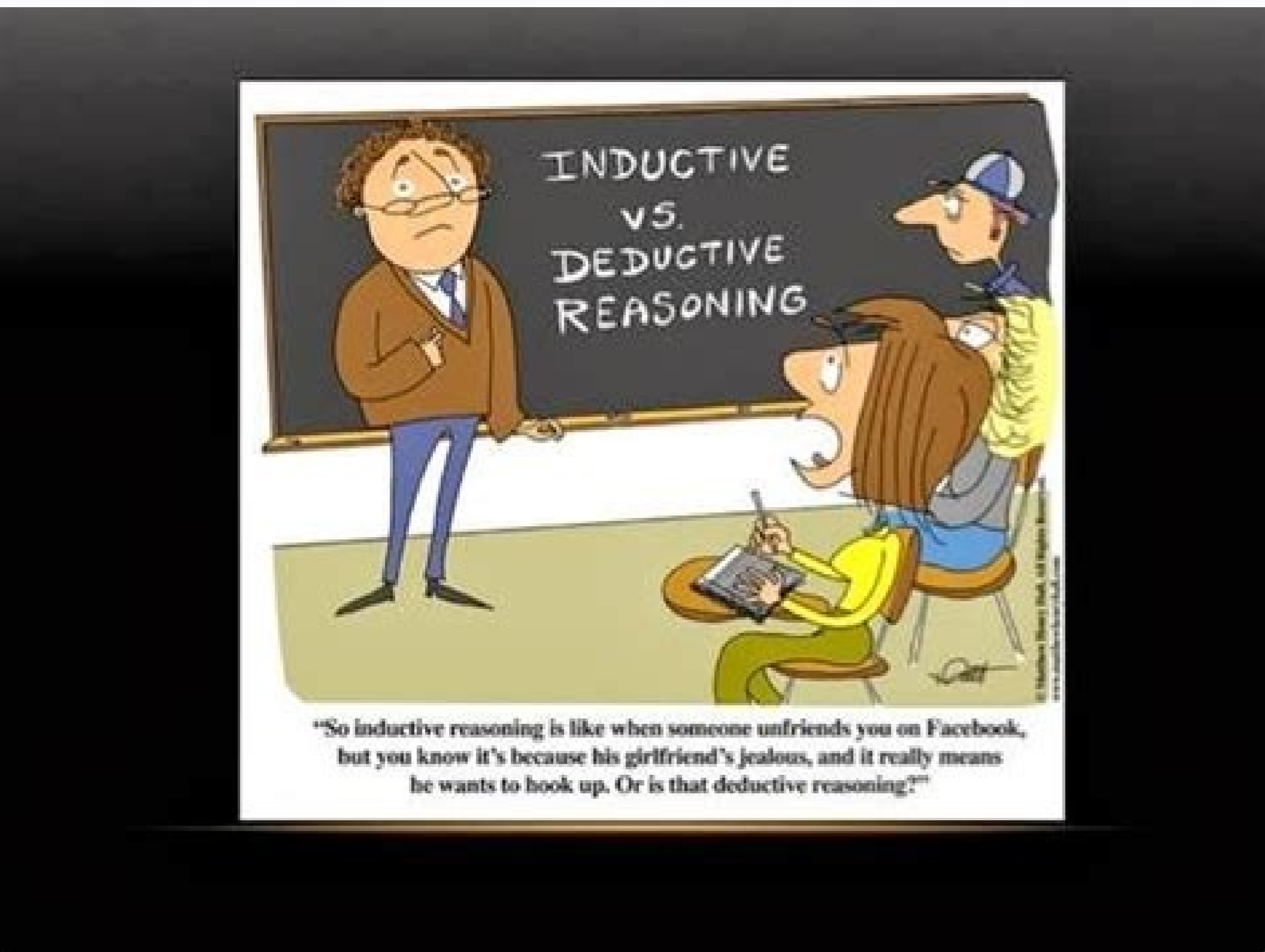
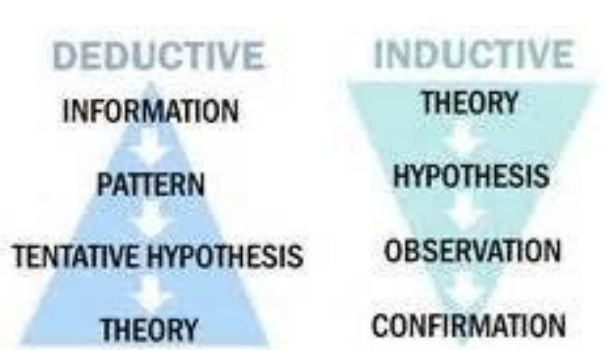


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### Lesson 2.1 • Inductive Reasoning

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

For Exercises 1–7, use inductive reasoning to find the next two terms in each sequence.

- 4, 8, 12, 16, \_\_\_\_\_
- 400, 200, 100, 50, 25, \_\_\_\_\_
- $\frac{1}{8}, \frac{2}{7}, \frac{1}{2}, \frac{4}{5}, \dots$
- 5, 3, -2, 1, -1, 0, \_\_\_\_\_
- 360, 180, 120, 90, \_\_\_\_\_
- 1, 3, 9, 27, 81, \_\_\_\_\_
- 1, 5, 14, 30, 55, \_\_\_\_\_

For Exercises 8–10, use inductive reasoning to draw the next two shapes in each picture pattern.

8.

9.

10.

For Exercises 11–13, use inductive reasoning to test each conjecture. Decide if the conjecture seems true or false. If it seems false, give a counterexample.

- The square of a number is larger than the number.
- Every multiple of 11 is a "palindrome," that is, a number that reads the same forward and backward.
- The difference of two consecutive square numbers is an odd number.

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We will use your score data to help develop a comparison group, to which future scores can be compared against in order to give them meaning. We have the utmost respect for your privacy and will not keep and personal data about you; all data is completely anonymous. By trying our tests, you will be helping us to collect valuable and anonymous comparison group data, which is vital to the development of our future psychometric tests. Our tests are industry-standard and you may find them similar to tests used for selection by companies such as SHL, which gives you an opportunity to get a feel for the tests you make come up against throughout a real selection process. Feel free to treat this as a preparation exercise to familiarise yourself with psychometric tests as part of a selection process. You don't have to be Sherlock Holmes to use your powers of deductive reasoning ... or would that be inductive reasoning?What's the difference between inductive and deductive reasoning?During the scientific process, deductive reasoning is used to reach a logical and true conclusion. Another type of reasoning, inductive, is also commonly used. People often confuse deductive reasoning with inductive reasoning; however, important distinctions separate these two pathways to a logical conclusion.What is deductive reasoning?Deductive reasoning, also known as deduction, is a basic form of reasoning. It starts out with a general statement, or hypothesis, and examines the possibilities to reach a specific, logical conclusion, according to Norman Herr (opens in new tab), a professor of secondary education at California State University in Northridge The scientific method uses deduction to test hypotheses and theories, which predict certain outcomes if they are correct, said Dr. Sylvia Wassertheil-Smoller, a researcher and professor emerita at Albert Einstein College of Medicine. "We go from the general — the theory — to the specific — the observations," Wassertheil-Smoller told Live Science. "In science, there is a constant interplay between inductive inference (based on observations) and deductive inference (based on theory), until we get closer and closer to the 'truth,' which we can only approach but not ascertain with complete certainty." In other words, the reliability of a conclusion made with inductive logic depends on the completeness of the observations. For instance, let's say that you have a bag of coins; you pull three coins from the bag, and each coin is a penny. Using inductive logic, you might then propose that all of the coins in the bag are pennies. Even though all of the initial observations — that each coin taken from the bag was a penny — are correct, inductive reasoning does not guarantee that the conclusion will be true. Here's another example: "Penguins are birds. Penguins can't fly. Therefore, all birds can't fly." The conclusion does not follow logically from the statements.Nevertheless, inductive reasoning has its place in the scientific method, and scientists use it to form hypotheses and theories. Deductive reasoning then allows them to apply the theories to specific situations.Deductive reasoning examplesHere are some examples of deductive reasoning:Major premise: All mammals have backbones. Minor premise: Humans are mammals. Conclusion: Humans have backbones.Major premise: All birds lay eggs. Minor premise: Pigeons are birds. Conclusion: Pigeons lay eggs.Major premise: All plants perform photosynthesis. Minor premise: A cactus is a plant. Conclusion: A cactus performs photosynthesis.Inductive reasoning examplesHere are some examples of inductive reasoning:Data: I see fireflies in my backyard every summer. Hypothesis: This summer, I will probably see fireflies in my backyard.Data: Every dog I meet is friendly. Hypothesis: Most dogs are usually friendly.Data: I tend to catch colds when people around me are sick. Hypothesis: Colds are infectious.What is abductive reasoningAnother form of scientific reasoning that diverges from inductive and deductive reasoning is abductive. Abductive reasoning usually starts with an obviously incomplete set of observations and proceeds to the likeliest possible explanation for the data, according to Butte College (opens in new tab) in Oroville, California. It is based on making and testing hypotheses using the best information available. It often entails making an educated guess after observing a phenomenon for which there is no clear explanation. For example, a person walks into their living room and finds torn-up papers all over the floor. The person's dog has been alone in the apartment all day. The person concludes that the dog tore up the papers because it is the most likely scenario. It's possible that a family member with a key to the apartment destroyed the papers, or it may have been done by the landlord, but the dog theory is the most likely conclusion.Abductive reasoning is useful for forming hypotheses to be tested. Abductive reasoning is often used by doctors who make a diagnosis based on test results, and by jurors who make decisions based on the evidence presented to them.Additional resources This test measures inductive reasoning. It is especially designed to prepare for the CUT-E tests. Aptitude(s) with respective weight(s) Warning, this test was recently created or modified. It is being calibrated. What does an inductive reasoning test measure? Inductive reasoning tests measure logic skills which are useful for solving problems. They require you to think broadly and in your head test out different possibilities. The skills required to do well in an inductive reasoning test are applicable to most jobs but particularly applicable to engineering, science and IT. It has been said that females are better at two dimensional problems while males are better at 3D problems. Most inductive reasoning tests involve thinking about transformations in 2D but there are also sometimes 3D problems such as choosing which net correctly forms a given cube. Q: What do inductive reasoning tests look like? The most common form of inductive reasoning test involves spotting what patterns exist in a series of graphics. The patterns are usually one of, or a combination of, the following: rotation; alternation, translation, reflection and replacement. If you practice you will learn to look for these transformations. If you think you have come up with the pattern, check it applies to every item in the sequence and you've found it. One of the reasons these tests are popular is they are entirely international; no language barrier exists as it is purely symbolic.

Improve your score now with our free aptitude tests. Learn expert tips from our test guides and discover how to ace each test. Start practicing now! 25.01.2019 · What is an Inductive Argument? An inductive argument, sometimes considered bottom-up logic, is one in which premises offer strong support for a conclusion, but one that is not a certainty. This is an argument in which the premises are supposed to support the conclusion in such a way that if the premises are true, it is improbable that the conclusion would be false. 04.01.2022 · Logical reasoning tests are designed to examine your logical thinking skills. During the test, you'll be met with questions regarding various patterns and shape sequences, and you'll have to employ rational thinking to solve the challenges. In general, the logical thinking test can come in three different forms - deductive, inductive or ... Logical reasoning tests for preparation, solution documents and example questions to improve your psychometric score. ... Inductive reasoning tests have you thinking against the clock as you have to spot patterns from the sequences of images or graphics. One has to notice the variables and difference that occur across the sequence. Deductive reasoning is the mental process of drawing deductive inferences. An inference is deductively valid if its conclusion follows logically from its premises, i.e. if it is impossible for the premises to be true and the conclusion to be false. For example, the inference from the premises "all men are mortal" and "Socrates is a man" to the conclusion "Socrates is mortal" is ... In logic, we often refer to the two broad methods of reasoning as the deductive and inductive approaches. Deductive reasoning works from the more general to the more specific. Sometimes this is informally called a "top-down" approach. We might begin with thinking up a theory about our topic of interest. Faulty generalization is also a mode of thinking that takes the experiences of one person or one group, and incorrectly extends it to another. Inductive fallacies Hasty generalization is the fallacy of examining just one or very few examples or studying a single case and generalizing that to be representative of the whole class of objects or ... 21.12.2021 · Here you can find out what logical thinking is, and the best methods to improve them. Check out the best logic exercises and examples for FREE. ... Inductive logic examples can also be examined under this category. Inductive reasoning is made by using specific information and to make a broad generalization that is considered probable. As the ... Inductive arguments Inductive thinking involves a complementary process of observing a number of specific events or instances and interfering with an abstract, general principle to explain those instances. ... 2.The deductive arguments are logical while the inductive statements are based more on observations. 3.In inductive argument the ... 07.05.2019 · Related: The Best Ways to Strengthen Your Logical Thinking Skills. When to use inductive reasoning. Inductive reasoning is not always the best way to reach a conclusion. Here are the pros and cons of using this decision-making method: The benefits of inductive reasoning. Inductive reasoning allows you to work with a wide range of probabilities.

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