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Problem 1: Sketch the next shape in the pattern. Problem 2 :D a pattern in the sequence of numbers. Predict the next number. 1, 4, 16, 64, Problem 3 :D a pattern in the sequence of numbers. Predict the next number. -5, -2, 4, 13, Problem 4: Carefully examine the following items. Then use inductive reasoning to make a guess about the next shape in the pattern. Problem 5: Look at the pattern below. Can we draw the next shape or set of dots using inductive reasoning? Detailed answer basic problem 1: Sketch the next shape in the pattern. Workaround Each image in the pattern resembles the previous image with another row of squares added to the bottom. Each shape looks like a ladder. Thus, the sixth shape in the pattern must have six squares in the bottom row. Problem 2 :D a pattern in the sequence of numbers. Predict the next number. 1, 4, 16, 64, Workaround Each number is four times greater than the previous number. So the next number is 256. Problem 3 :D a pattern in the order of the numbers. Predict the next number. -5, -2, 4, 13, Workaround When we look at the above sequence of numbers, the following pattern comes in the image. When we add 3 to the first number -5, we get the second number -2. To get the third number, we need to add 6 to the second number -2. To get the fourth number, we need to add 9 to the third number 13. Thus, the above sequence of numbers is created by adding successive multiples of 3. To get the fifth number, we need to add the next multiple of three, which is 12 to the fourth number. Then the number is $13 + 12 = 25$. Problem 4: Look closely at the following items. Then use inductive reasoning to make a guess about the next shape in the pattern. Solution : If we have carefully observed the above pattern, we can have the following points. (i) In the first image, the shaded part is in the upper-left corner. (ii) In the second shape, the shaded part is in the upper-right corner. (iii) In the third shape, the shaded part is in the lower right corner. So, in the fourth shape, we must have the shaded section in the lower left corner, as given below. Problem 5: Look at the pattern below. Can we draw the next shape or set of dots using inductive reasoning? Solution: The trick is to see that one dot is always placed between and over two dots. In the bottom row, we have one dot in the first shape, two dots in the second shape, and three dots in the third shape. Thus, the next number must be four dots in the bottom row. With this in mind, our next format should look like this: In addition to the things given above, if you need any other things in math, please use our google custom search here. If you have any comments on our math content, please send us our always appreciate your feedback. You can also visit the following websites on different things in mathematics. 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C.M method for solving time and work problems Breaking word problems in algebraic expressions Eder when 2 power 256 is divided by 17 Remainder when 17 power 23 is divided by 16 Sum of all three digit numbers divided by 6 Sum and three digits of numbers divided by 7 Sum and three digits of numbers divided by 8 Sum and three digits of numbers formed using 1, 3, 4 Sum and the three four-digit numbers formed with non-zero digits Sum of all three four-digit numbers formed using 0, 1, 2, 3 Sum and the three four-digit numbers formed using 1, 2, 5, 6 copyright onlinemath4all.com SBI! Showing the top 8 worksheets in the category - Abstract Reasoning 2 4 G format. Some of the worksheets shown are Algebra 2 4 reasoning in algebra, Inductive and abstract reasoning, 2 3 abstract reasoning, Lesson 2 1 patterns and inductive reasoning, inductive and abstract reasoning, Inductive and abstract reasoning, Abstract and inductive reasoning. Once you find your worksheet, click the pop-out icon or print icon on the worksheet to print or download. The worksheet will open in a new window. You can download or print using your browser document Options. Introducing the top 8 worksheets in the category - Inductive and abstract reasoning. Some of the worksheets that appear are abstract reasoning exercises for attention and executive, Inductive vs abstract wkst, abstract inductive reasoning, Inductive and abstract reasoning, Abstract reasoning exercise, Abstract and inductive reasoning, 1 inductive and abstract reasoning, Picnic in the park. Once you find your worksheet, click the pop-out icon or print icon on the worksheet to print or download. The worksheet will open in a new window. You can download or print using the browser's document reading options. These courses are part of a series of free, online High School Geometry Courses. We also have more videos, worksheets and activities to help Geometry students. In these lessons, we will learn inductive reasoning Abstract reasoning Inductive reasoning is the process of observation, recognizing patterns and speculating about observed patterns. Inductive reasoning is commonly used outside the Geometry class; For example, if you touch a hot pan and burn yourself, you realize that touching another hot pan will produce a similar (unwanted) effect. The conclusion you draw from inductive reasoning is called conjecture. A guess is not supported by the truth. When you make a guess, it is possible to make a statement that is not always true. Any statement that contradicts a conjecture is a counterexample. Examples: 1. Determine the number of points in the 4th, 5th and 8th figures. 2. (a) Specify the next 2 terms of the sequence. 4, 8, 16, 32, 64, ... b) Identify a formula that could be used to identify any term in the series. This video will define inductive reasoning, use inductive reasoning to speculate, define counterfactual. How to set inductive reasoning, how to find numbers in a sequence? Show Step-by-Step Solutions Inductive Reasoning & Speculation Use inductive

reasoning to identify patterns and speculate. Example: Describe the pattern in the numbers -7, -21, -63, -189, ... And write down the next three terms of the series. Show Step-by-step Solutions Proving Procures & Counterexamples To show that a guess is true is difficult, we need to show that guesswork applies to all cases. Showing that a guess is false is comparatively easier. We just need to show that the speculation doesn't apply to a case. This case is a counter-example. How to find counteroffer to I don't know. Example: Give a counterexample for the following guesses. (a) All the first numbers are curious. (b) $(a + b)^2 = a^2 + b^2$ (c) If the product of the two numbers is positive, both numbers must be positive. Show Step-by-Step Solutions Abstract reasoning is the process of reasoning logically from specific statements to make a conclusion. Abstract reasoning is the type of reasoning used making a geometric proof when lawyers present a case, or every time you try and convince someone using facts and arguments. How to define abstract reasoning and compare it with inductive reasoning? Example: 1. Prove that QUAD is a rectangle. 2. Draw the next shape. Show Step-by-Step Solutions This video defines abstract reasoning and the basic rules of logical Abstract reasoning are when you make conclusions based on facts that support the conclusion without question. Law of Posting Law of Contrapositive Law of Syllogism Show Step-by-Step Solutions Difference between inductive and abstract reasoning Example: To estimate a city's population in the coming years, one of the city's workers collected population from previous years and made this table: The city wants to estimate the population for 2015, 2018, and 2020. To do this, will you use inductive reasoning or abstract reasoning? Show Step-by-Step Solutions Abstract Reasoning Problem: Sequence, Order and Induction Example: Hiram solved the equation using the following steps Is this an example of abstract reasoning? Show Step-by-Step Solutions Abstract Reasoning Example: Use abstract reasoning and yo allocation property justify $(x + y)^2 = x^2 + 2xy + y^2$. Give the reasoning for each step. Show step-by-step solutions Try the free Mathway calculator and solve problems below to practice various math topics. Try the examples given to you or type your own problem and check your answer with step-by-step explanations. We welcome your comments, comments and questions on this site or page. Please submit your comments or queries via the comments page. Page.

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