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Score: 0% Rank: Correct Answer: If you need to find exactly halfway or midway between two points, then it may not be surprising to learn that you will need to use the midpoint formula. The name says it all. Let's say you have two coordinates, and you need to find the halfway point in between these two coordinates. That is where the midpoint formula comes in handy. However, do you know what coordinates are? Look at the numbers below. These are a pair of coordinates. The first coordinate shows where you can plot a point on a graph. Then you can plot the second coordinate on a graph. In most cases, students will draw a straight line through the points to create a line. At times, you may need to find out where the halfway point is on that line. You would use this midpoint formula. $(8,9)(2,4)$ So, what do these coordinates mean? The first number, 8, is on the x-axis. The second number, 9, is on the y-axis. The same can be said for the coordinates, 2 and 4. The number 2 is on the x-axis, and the 4 is on the y-axis. Many times, the x and y are labeled over the coordinates as shown below. $\begin{matrix} x & y \\ 8 & 9 \\ 2 & 4 \end{matrix}$ Now, what do all of these letters and numbers mean? The X and Y coordinate for the midpoint or the halfway point. X_1 and Y_1 represent the first coordinate. The X_2 and Y_2 represent the second coordinate. How Do You Use the Midpoint Formula Once you have determined what each item represents, you can start plugging in the numbers. However, let's review what everything represents in the formula. Look at the formula for the midpoint below and see what each symbol represents as well as where you need to go to get the numbers to plug in. The midpoint coordinate $(\frac{X_1 + X_2}{2}, \frac{Y_1 + Y_2}{2})$ is your answer. It is the midpoint. If you plotted both coordinates, and then you plotted the midpoint coordinate, it should look like it is exactly in the middle of those two points. You will add both x-axis numbers together and then divide by two. This will be the x-axis midpoint number. Then you will add both y-axis numbers together and then divide by two. This will be the y-axis midpoint number. Fact 1: It is easy to confuse which numbers to plug in because the numbers of the first coordinate go into two different places. They are not placed right next to each other in the formula. EXAMPLE It's time to do this example with the coordinates (8, 9) and (2, 4). Look at how we work the problem below. $X = \frac{8+2}{2}$ $Y = \frac{9+4}{2}$ $X = \frac{10}{2}$ $Y = \frac{13}{2}$ $X = 5$ $Y = 6.5$ To find the midpoint, plug in the numbers from the coordinates for X_1 and Y_1 and X_2 and Y_2 . Then divide each by 2. For these two coordinates, the X number is 8 and the Y number is 9. So, $8 + 2$ equals 10. Then when you divide by 2, your answer is 5. So, the first number in the midpoint for the x-axis is 5. The X number is 9 and the Y number is 4. When you add these two numbers together, the sum is 13. When you divide 13 by 2, the answer is a decimal, 6.5. It is fine to have a decimal for a number in your coordinate. So, 5 and 6.5 are the X and Y coordinates for the midpoint for coordinates 8, 9 and 2, 4. FACT: This formula may appear similar if you try to find the average for a set of numbers. You add a certain amount of numbers together. Then you divide that sum by the amount of numbers you added. The midpoint is halfway between the set of numbers, so the average is considered halfway between a set of numbers too. When Will I Need to Use the Midpoint Formula? Obviously, you will not use the midpoint formula during your daily life. Instead, it will be during certain algebraic problems. The most obvious problems will be when the problem will ask in a straightforward way. It will ask you to find the midpoint or middle of the two points. Then two coordinates are provided. Another type of problem where you will use the midpoint formula is when a line is given between two points, and you must intersect the line halfway through it. You would then need to use the midpoint formula. Finally, the last way you will use the midpoint formula is when a shape is given. It will most likely be shown on a graph with an x-axis and y-axis. That is so you will have the coordinates needed to find the midpoint using the midpoint formula. Coordinates would be needed, so a problem would not simply have just a shape. For example, a triangle could be drawn on a grid, and the problem would ask you to find the center of the triangle or center of one of the lines. Also, finding the midpoint of a line may be just one step of a problem. You may have to find the midpoint in order to solve the rest of the problem. Challenge Questions Frequently Asked Questions Can you use the midpoint formula without a set of coordinates? The straightforward answer is no because that is the one requirement needed for the formula. However, as long as you can get two coordinates from a line or two points on the grid, then you can use that. In other words, two coordinates have to be provided, or you have to be able to figure out the two coordinates from a line or shape on a grid. What is a common error that someone might make with the midpoint formula? Most likely, a student might add the two numbers in one coordinate together. Instead, you add the first numbers of each coordinate together. Then add the second numbers of each coordinate together. If you added the numbers within the same coordinate together, then the answer for the midpoint would be incorrect. How do you find the answer when using the midpoint formula? To find the answer to the midpoint formula, first, you need a set of coordinates. The coordinates can be located at the ends of a line. Mark each coordinate as X and Y. The first number is X and the second number is Y. With the first coordinate, the first X is X_1 and the second number is Y_1 . For the second coordinate, the first X is X_2 , and the second number is Y_2 . Then you will need to add the X_1 and X_2 numbers together and divide by 2. Then add the Y_1 and Y_2 numbers together and divide by 2. These two numbers will be the midpoint coordinate. Score: 0% Rank: Correct Answer: Score: 0% Rank: Correct Answer:

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