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How to solve a cuboid

There are many strategies for solving a Rubik's Cube, but there's one basic method most Cubers learn first.With the cube facing you, make quarter-turn rotations until the same color squares appear in a cross or plus sign. Keep in mind that the center square is static. If the side you chose to solve first has a white center square, you'll want to line up other white squares to form a cross.From here on out, it gets a little more complicated. After forming a white cross, seek out white corner pieces. To do this, you'll make a counterintuitive move: Put the top corner piece in the bottom row below its final destination. Then, move the row in this sequence: Ri, Di, R and D. Repeat this until the top corner pieces are in place and the first side of your Rubik's Cube is solved.Flip the cube and place the solved side to the bottom. Your task is to make the edge pieces in the middle layer all the same color on the side that is now facing you. This will require a two-part mini-strategy. First, you'll perform U, R, Ui, Ri, U, Ri, U and F to create a vertical, same-color lineup in the middle of the cube. Second, you'll move Ui, Li, U, L, U, F, Ui and Fi to move all the edge pieces to the proper place. At this point, the bottom row and second row of your cube should be solved all the way around.To solve the top and final row, you'll create a yellow cross using a protracted series of rotations. Keep in mind you may need to do this sequence several times to solve the final piece of the puzzle: R, U, Ri, U, R, U, U and Ri.From there, it's just a matter of putting the yellow edges into place. If you have one edge that's solid yellow (all three yellow squares lined up), turn your cube to place the solved edge at the back. However, you may not have any yellow edges that are solved. In this case, you'll need to experiment to find out which direction is most effective. As you rotate, follow the sequence: U, R, Ui, Li, U, Ri, Ui and L. You'll need to repeat this two or four times to solve each corner, but before long, your Rubik's Cube will no longer be a mystery [source: Science Buddies, You Can Do the Cube].Page 2As any experienced puzzler will tell you, there is no quick and easy way to master 3-D puzzles. Like any worthwhile pursuit, it requires lots and lots of practice and experience with a wide variety of puzzles. Puzzles also require a certain kind of intelligence. It's no coincidence that some of the best puzzlers are engineers or computer programmers -- methodical problem-solvers who can think mathematically and sequentially.That said, many puzzles hinge on a "secret" that, once revealed, makes the riddle a whole lot easier to solve. In 1981, just a year after the Rubik's craze hit the U.S. and England, a 12-year-old British schoolboy named Patrick Bossert circulated a small leaflet called "You Can Do the Cube" that claimed to reveal the secret moves behind solving the wildly popular puzzle [source: Rubik's]. The mini-book, which quickly sold 1.5 million copies, helped create the lingo that Rubik's fans still use today.Rubik's now has a website called You Can Do the Cube where beginners and frustrated old-timers can learn Bossert's method. Here are the first Rubik's tips and tricks:On a classic 3-by-3 Cube, the six middle pieces don't move. The color of those pieces is therefore the color of that side.To learn the secret algorithms to solving the cube, you must first learn the names and symbols representing each side of the cubeThe side facing you (no matter the color) is the front (F); the side away from you is the back (B), the topside is up (U), the bottom is down (D), and the right and left side are (R) and (L).A basic turn is a quarter turn of a side in a clockwise direction. So the symbol R means you turn the right side a quarter turn in a clockwise direction. The symbol Ri means right inverse, which is a right side turn in a counterclockwise direction.All cubes can be solved in six stages starting with the completion of a cross on one side. Download the step-by-step instructions from the "You Can Do the Cube" website or watch the videos to learn the algorithms -- sequenced moves like "Fi U Li Uj" -- that can work any piece to its desired place on the cube.The beauty of many 3-D puzzles is that they come with their own instructions. Those intricate Japanese puzzle boxes are meant to be opened, but only by the owner, who can presumably keep the steps a secret. The same goes for many 3-D puzzles that are really more like wooden models of ships, buildings, or animals. Paul Gallant's 3-D jigsaw puzzles -- sold under the names of Wreabbit and Puzz3D -- don't come with step-by-step directions, but do include detailed diagrams of the finished puzzle from several angles and tips for locating corner pieces and "hidden" pieces whose location isn't clear from the pictures.For lots more information on puzzles, games and brainteasers, see the links on the next page. DIY So setzt du Highlights. Hacks & Tipps Sehr harmonisch! 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Share Pin it Tweet Share Email To this day, I think the best way to approach and solve any problems in your life is to look at them objectively and practically. More so, I feel running through something like a formula or system works really well to get things solved. This article explains, briefly, some steps on how to attack general problems. Use Parkinson's Law. This law says that a task will expand in time and seeming complexity depending on the time you set aside for it. For instance, if you say to yourself that you 'll come up with a solution within a week then the problem will seem to grow more difficult and you 'll spend more and more time trying to come up with a solution. Combine this law with the 80/20 rule to find solutions quickly. Focus your time on finding solutions. Then just give yourself an hour (instead of the whole day) or the day (instead of the whole week) to solve the problem. This will force your mind to focus on solutions and action. 16 Practical Tips for Solving Your Problems More Easily - [PositivityBlog] Share Pin it Tweet Share Email 1 Why Is It Raining Iguanas in Florida? 2 Hunter S. Thompson: Fascinating Facts About the Godfather of Gonzo Journalism 3 How Many Miles Is It From Coast to Coast in the United States? 4 What Is a Baby Goat Called? 5 What Should You Do If Dissolvable Stitches Don't Dissolve? Photo: New Brunswick Tourism | Tourisme Nouveau-Brunswick We all have problems. Whether it's something that's been dumped on you at work, something at home, or something else entirely, life rarely goes 100% according to plan. No matter how large or challenging the problem, there's nearly always a solution of some sort. All you have to do is find it. (See also: Got a Problem? Why You Should Figure It Out Yourself) 1. Speak Positively It's easy to think about saying positive things about yourself, but it can be much harder to execute. And yet, thinking positively about yourself will make it more likely that you'll be able to solve a hard problem. Make a list of things you're good at or things you like about yourself. Then put them in the present tense, starting with "I am..." You'll end up with a list of statements like, "I am happy," "I am successful," and "I am creative." Post the list where you can see it, and read through it at least once a day. If you're comfortable, read it out loud. Hearing your own voice say these things will be even more powerful. 2. Remember Past Successes When you're struggling to find a solution, it's easy to think about all the times you've tried and things haven't gone the way you wanted them to go. Instead, deliberately ponder your successes. No matter how small the success, think it through. Think about what made the success happen, and think about how you can recreate those things in your current situation. 3. Learn From Past Failures If you can't get your mind off your past failures, use them instead. Examine each one carefully. Take some time to turn it over and over in your mind. Determine what caused you to fail. Is it something you can improve? In that case, come up with a plan to avoid that this time. Was it something out of your control? Then let it go, knowing that you can't control everything. Then, turn back to your problem and see if you can't find a solution now. 4. Wear Clothes That Make You Feel Attractive and Comfortable It's so much easier to think creatively when you feel good about yourself. That means not only knowing that you look good, but not having anything to distract you. So, even if those stilettos make your legs look amazing, avoid them if you'll be in pain all day. 5. Take Some Time Away If you pursue a solution and it really won't come, then maybe you're burning out on this problem. While it's great to get away for a day or two, a simple walk around the block or even down the hall can help you feel refreshed. Time away from a project also gives you perspective, so you can see things from multiple points of view when you go back. 6. Get Moving When your brain focuses on one thing for too long, it starts to think in the same patterns over and over. Change your brain's focus by moving your body. In addition, you'll charge your system with endorphins, which make you feel good and will also help you think about the problem more creatively. 7. Wonder and Wander Another way to help your brain get out of a rut is to let it wander for a while. Many times, you'll find yourself making connections between things that didn't seem connected before, and you may end up with a creative solution to your problem or at least a new pathway for inquiry. If this is hard for you, create a mind map, so you can see all of the ways that different ideas might connect. 8. Go Outside If you're pondering and pondering a problem from the same point of view, get up and move outside. Going outside not only changes your perspective, but it also charges your system with D vitamins. Finally, getting outside may give you enough of a perspective change that you'll find new patterns for your mind, which may generate new solutions. 9. Watch Other People If nothing is working, take some time to watch how other people work. If there's someone in particular who solves problems well, ask them how they do it. While some people are just wired that way, others have taken the time to learn techniques that could benefit you, too. 10. Ask Questions Asking questions about the problem in front of you not only makes sure you have all the relevant information, but may generate an idea that becomes your solution. Sometimes, other people have a piece of data that they don't realize pertains to your problem. When you ask them questions, those tidbits can come out and you can utilize them. 11. Make a List When you feel like you've tried everything and nothing has worked, begin to write down your ideas -- the ones you've tried, the ones that seem crazy, and the ones that seem like they'd take an act of God to accomplish. Writing can help your brain make new connections and seeing an idea on paper might help you see that it's not impossible after all. 12. Breathe Deep Take 5-10 minutes to focus on your breathing. Feel each breath come in and go out. Lay all other thoughts aside. An answer may come to you while you're breathing or it may not, but no matter what, your mind will be in a better place to come up with a solution when you're done. 13. Take a Blast From the Past Even if no one has had your specific problem before, people have probably had similar problems. Do some research to find out how people solved these similar problems in the past. While you may not be able to utilize the exact same solution, just knowing that they solved the problem will help you calm down to find a solution of your own. 14. Think Differently This has come up throughout this article, but it gets its own point because it's so important. Do whatever you have to do to get your brain out of the rut that it's in. Do jumping jacks. Call someone you haven't spoken to in years. Go someplace new for dinner. All of these things can trigger a new connection in your brain, and it just might be the one you're looking for. 15. Remember the Alamo To some people, the Alamo was a huge failure. However, the men there dug deep, dug in, and held on until the very end. While they didn't get to see the solution to their problem, they inspired people in their own time and across time into the present. Remember that finding a solution to your problem, while important, is only the small picture. In a big picture world, what looks like failure could be more of a success in the long run. How do you solve those impossible problems? What has worked for you?

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