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# About This Book

The puzzles in this book were developed to help students improve some thinking skills while having fun at the same time. The critical thinking skills practiced include the following: gathering and organising information, comparing facts, deductive reasoning, maths logic and working backwards. The problems are also designed to help individuals practice the patience and perseverance involved in a problem-solving situation.



The book contains four different types of puzzles. The puzzles of each type increase with difficulty as the book progresses. For three of the puzzle types, there is a page of explanation that will help you to develop a strategy for solving that particular type of puzzle. One type of puzzle does not have this option because there are many different avenues you may choose to solve the problems.



The main purpose of this book is to provide fun and challenging puzzles that will help you to polish critical thinking and problem-solving skills. The puzzles are enjoyable to work out and provide an excellent opportunity for experimentation with logic in a non-threatening, non-marked situation.





# Winter Wonderland

The Zona family spent the day at Winter Park yesterday. They had a really cool time. You can play with the facts below and use the grid to figure out how each of them spent their time.

1. Look at the grid. Notice that there are four family members and 4 different activities. Each person did one activity.
2. Anthony is the ice skater's dad. This means that Anthony is not the \_\_\_\_\_. Place an X in the Anthony/Ice skater box.
3. Beth is mother to the ice skater and the sledder. This statements tells us that Beth is not the \_\_\_\_\_ or the \_\_\_\_\_. Place an X in those boxes. Now you know that Beth did one of these two activities: \_\_\_\_\_ or \_\_\_\_\_.
4. Josh's and Beth's activities required hills. Think about this. Which two activities required hills? Answer: \_\_\_\_\_ and \_\_\_\_\_. We already know that Beth did not go sledding so Beth must have been the one to go \_\_\_\_\_. Now you can place a star in the box that correlates to Beth and skiing. This also tells you that Beth did not build a snowman so you may place an X in the skiing boxes of Josh, Damian and Anthony.
5. Now, back to the last clue... if Josh's activity also required a hill then Josh must have done what? \_\_\_\_\_ Now, place a star or a smiley face in that box. This also means that Josh didn't build a snowman or go ice skating. You should now be able to finish the puzzle on your own. Have fun and stay cool!



Beth

Josh



Damien



Anthony

	Skiing	Snowman	Ice Skating	Sledding
Beth				
Josh				
Damien				
Anthony				