

Name _____

Date _____

Five students entered the science fair. Each student made a different project and won a different prize.

Use the clues to find each student's project and prize.

Clues

- The student who made the volcano did not win 3rd prize.
- Of Dana and Gus, one won 1st prize and the other won 4th prize.
- Nora made the plant maze or the weather station.
- The student who made the magnet car won 4th prize.
- Ella placed one spot ahead of Leo.
- Ella made the volcano or the solar oven.
- Dana won a better prize than the student who made the solar oven.
- The student who made the plant maze won 1st prize or 2nd prize.

		Project					Prize				
		solar oven	plant maze	volcano	magnet car	weather station	1st	2nd	3rd	4th	5th
Name	Dana										
	Ella										
	Gus										
	Leo										
	Nora										
Prize	1st										
	2nd										
	3rd										
	4th										
	5th										

Answers

Dana

_____ project
_____ prize

Ella

_____ project
_____ prize

Gus

_____ project
_____ prize

Leo

_____ project
_____ prize

Nora

_____ project
_____ prize

Stuck? Try it and see

Pick an either/or clue and suppose its first half is true. Mark lightly and keep going. If a row or column ends up with no box left, that half was false, so rub out and mark the other half as true.

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A ● marks a yes and an X marks a no. Every box can be filled in from the clues.

Name	Project	Prize
Dana	plant maze	1st
Ella	volcano	2nd
Gus	magnet car	4th
Leo	solar oven	3rd
Nora	weather station	5th

		Project					Prize				
		solar oven	plant maze	volcano	magnet car	weather station	1st	2nd	3rd	4th	5th
Name	Dana	X	●	X	X	X	●	X	X	X	X
	Ella	X	X	●	X	X	X	●	X	X	X
	Gus	X	X	X	●	X	X	X	X	●	X
	Leo	●	X	X	X	X	X	X	●	X	X
	Nora	X	X	X	X	●	X	X	X	X	●
Prize	1st	X	●	X	X	X					
	2nd	X	X	●	X	X					
	3rd	●	X	X	X	X					
	4th	X	X	X	●	X					
	5th	X	X	X	X	●					

The try-it-and-see step

Clue 2. Suppose Dana won 4th prize. Follow that through the grid and a row or column runs out of boxes, so it cannot be true. That leaves the other half of the clue: Dana won 1st prize.