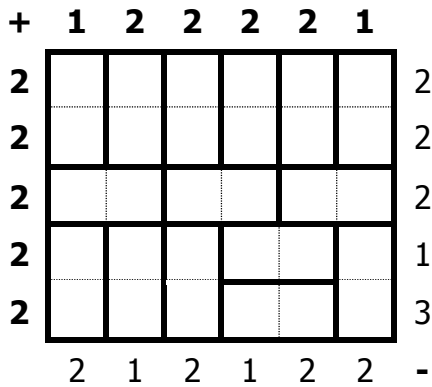
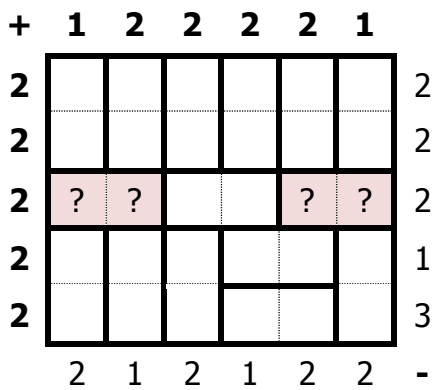


### Magnets: step-by-step solutions for a medium puzzle



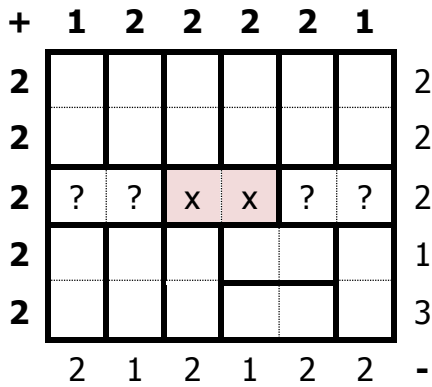
Look at columns 1, 2, and 6.

Each of these has 1 of one sign and 2 of the other, which makes 3, an odd number. Looking at the way the dominoes are blocked out, we can see that we need that single block coming from the sideways domino. Put in ?? to hold the place.



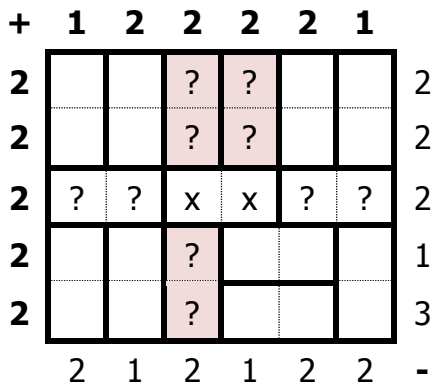
Look at row 3.

Since we have 2 of each sign already blocked in, the remaining domino must be X X.



Look at columns 3 and 4.

We need to fill in the rest of column 3 with ?? to make up the numbers. We also need to fill in the vertical domino in column 4 with ??, as there will be no other way to get a total of 3 signed values.



Look at row 5.

There are 6 spaces and we need to fill 5 of them. This means that the sideways domino must have something in it. Put in ?? to hold the place.

	<b>+</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	
<b>2</b>			?	?				<b>2</b>
<b>2</b>			?	?				<b>2</b>
<b>2</b>		?	?	X	X	?	?	<b>2</b>
<b>2</b>			?					<b>1</b>
<b>2</b>			?	?	?			<b>3</b>
		<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>-</b>

Look at column 4, then column 3.

In order to get 2 + signs in this column, the bottom value must be +. Also, we have the necessary 3 spaces filled, so the remaining space must be X. Finally, we can replace the ? marks in the bottom 2 squares of column 3.

	<b>+</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	
<b>2</b>			?	?				<b>2</b>
<b>2</b>			?	?				<b>2</b>
<b>2</b>		?	?	X	X	?	?	<b>2</b>
<b>2</b>			+	X	X			<b>1</b>
<b>2</b>			-	+	-			<b>3</b>
		<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>-</b>

Look at row 4.

There is only possible place for that second + to go. Once this is in place, we can replace the ? in column 1. Notice that we have used up all the values for column 1, so the other two squares must be X.

	<b>+</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	
<b>2</b>			?	?				<b>2</b>
<b>2</b>			?	?				<b>2</b>
<b>2</b>		?	?	X	X	?	?	<b>2</b>
<b>2</b>		+		+	X	X		<b>1</b>
<b>2</b>		-		-	+	-		<b>3</b>
		<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>-</b>

Look at column 1.

Now we can replace the ? in column 1. Notice that we have used up all the values for column 1, so the other two squares must be X.

	<b>+</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	
<b>2</b>		X		?	?			<b>2</b>
<b>2</b>		X		?	?			<b>2</b>
<b>2</b>		-	+	X	X	?	?	<b>2</b>
<b>2</b>		+		+	X	X		<b>1</b>
<b>2</b>		-		-	+	-		<b>3</b>
		<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>-</b>

Look at column 5.

Since one square has an X and we need to fill 4 squares, the rest of the column can be filled in.

	<b>+</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	
<b>2</b>	X		?	?	+			<b>2</b>
<b>2</b>	X		?	?	-			<b>2</b>
<b>2</b>	-	+	X	X	+	-		<b>2</b>
<b>2</b>	+		+	X	X			<b>1</b>
<b>2</b>	-		-	+	-			<b>3</b>
		<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>-</b>

Look at columns 3 & 4.

The ? marks can be replaced, as they are beside known values.

	<b>+</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	
<b>2</b>	X		+	-	+			<b>2</b>
<b>2</b>	X		-	+	-			<b>2</b>
<b>2</b>	-	+	X	X	+	-		<b>2</b>
<b>2</b>	+		+	X	X			<b>1</b>
<b>2</b>	-		-	+	-			<b>3</b>
		<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>-</b>

Look at column 2.

The second square from the top is beside both a + and a -, so it can't take on either value. Put in the X X, then finish the column.

	<b>+</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	
<b>2</b>	X	X	+	-	+			<b>2</b>
<b>2</b>	X	X	-	+	-			<b>2</b>
<b>2</b>	-	+	X	X	+	-		<b>2</b>
<b>2</b>	+	-	+	X	X			<b>1</b>
<b>2</b>	-	+	-	+	-			<b>3</b>
		<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>-</b>

Finish rows 1 & 2.

Column 6 now has all its values, so we can finish the puzzle.

	<b>+</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	
<b>2</b>	X	X	+	-	+	-		<b>2</b>
<b>2</b>	X	X	-	+	-	+		<b>2</b>
<b>2</b>	-	+	X	X	+	-		<b>2</b>
<b>2</b>	+	-	+	X	X	X		<b>1</b>
<b>2</b>	-	+	-	+	-	X		<b>3</b>
		<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>-</b>