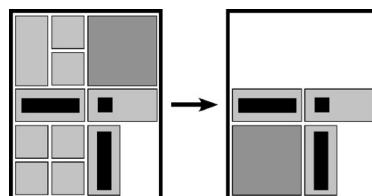


Fence The Cow



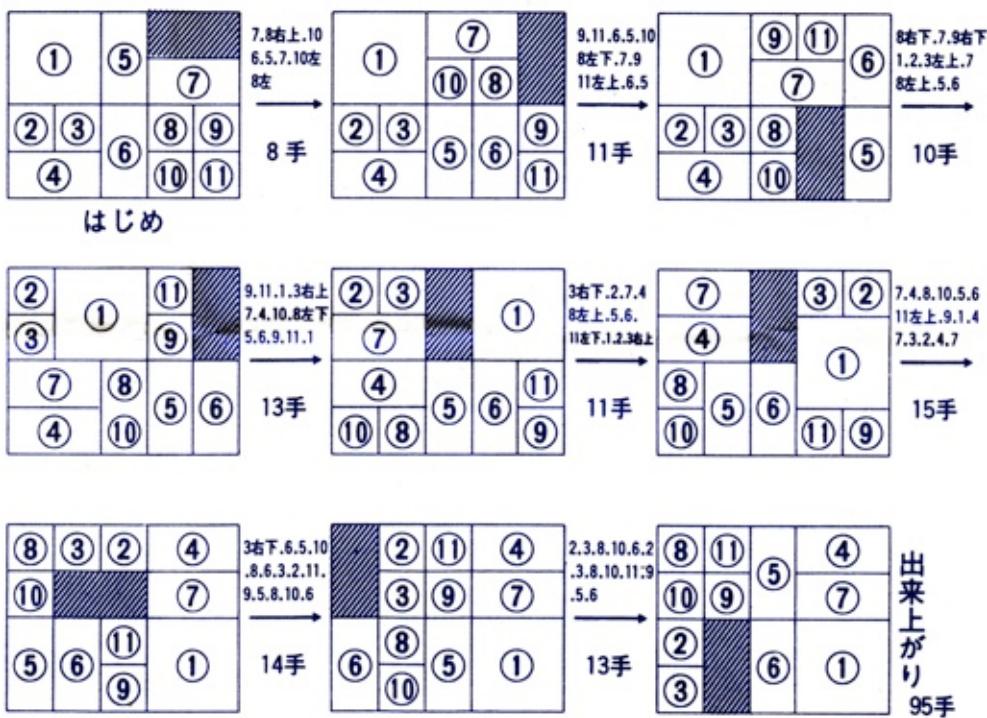
*Originally manufactured by Hanabishi 1984;
left purchased in Japan 2010, right made by J. A. Storer 2007.
(left: cardboard box, 11 wood pieces + keeper, 4.75" x 5.8" x 7/16";
right: box, 11 purple heart and cherry pieces + keeper, 5" x 6.1" x 1.25")*

The object is to move the cow inside the fences:



Here are the directions that were sold with the puzzle:

牛・牧場パズル 正解例



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A Solution to Fence The Cow

Here is a solution of 82 straight-line moves; it can be converted to 71 rectilinear moves by combining steps 2/3, 15/16, 19/20, 23/24, 26/27, 30/31, 33/34, 40/41, 45/46, 58/59, and 62/63 (this solution remains minimal even if graphics are ignored, and no solution is possible if the lower right two square are required to be blank):

9 1 X X	9 1 X X	9 1 X X	9 1 X X	9 1 X X	9 1 X X	9 1 X X	9 1 X X
9 2 X X	9 2 X X	9 2 X X	9 2 X X	9 2 X X	9 2 X X	9 2 X X	9 2 X X
7 7 8 8	7 7 8 8	7 7 8 8	7 7 8 8	7 7 8 8	7 7 8 8	8 8	8 8
3 4 10	3 4 10	3 410	3 10	310	7 7 310	7 7 310	7 7 10
5 6 10	5 6 10	5 6 10	5 6 410	5 6 410	5 6 410	5 6 410	5 6 410
9 1 X X	9 1 X X	9 1 X X	9 1 X X	9 1 X X	9 1 X X	9 1 X X	9 1 X X
9 2 X X	9 2 X X	9 2 X X	9 2 X X	9 2 X X	9 2 X X	9 2 X X	9 2 X X
8 8 310	8 8 310	8 8 310	8 8 310	8 8 310	310	3 10	3 410
7 7 4	7 7 410	7 7 410	7 7 410	410	8 8 410	8 8 410	8 8 10
5 6 10	5 6	5 6	5 6	7 7 5 6	7 7 5 6	7 7 5 6	7 7 5 6
9 1 X X	9 1 X X	9 1 X X	9 1 X X	9 1 X X	9 1 X X	9 1 X X	9 1 X X
9 2 X X	9 2 X X	9 2 X X	9 2 X X	9 2 X X	9 2 X X	9 2 X X	9 2 X X
3 4 10	3 410	3 410 6	3 410 6	3 410 6	3 410 6	3 410 6	3 10 6
8 8 10	8 810	8 810	8 810	8 810 5	8 810 5	10 5	410 5
7 7 5 6	7 7 5 6	7 7 5	7 7 5	7 7	7 7	8 8 7 7	8 8 7 7
9 1 X X	9 1 X X	9 1 X X	9 1 X X	9 1	9	9 2 1	9 2 1
9 2 X X	9 2 X X	9 2 X X	9 2 X X	9 2 X X	9 2 X X	9 X X	9 X X
3 10 6	310 6	310 6	310	310 X X	310 X X	310 X X	310 X X
4 10 5	410 5	410 5	410 6 5	410 6 5	410 6 5	410 6 5	410 6 5
8 8 7 7	8 8 7 7	8 8 7 7	8 8 7 7	8 8 7 7	8 8 7 7	8 8 7 7	8 8 7 7
910 2 1	910 2 1	910 2 1	910 2 1	910 2 1	910 2 1	910 2 1	910 2 1
910 X X	910						
3 X X	3 X X	3 4 X X	3 4 X X	3 4 X X	3 4 X X	3 4 X X	3 4 X X
4 6 5	4 6 5	6 5	8 8 6 5	8 8 6 5	8 8 6 5	8 8 5	8 8 X X
8 8 7 7	8 8 7 7	8 8 7 7	7 7	7 7	7 7 6	7 7 6 5	7 7 6 5
910 1	910 1	9 10 1	910 1	3 910 1	3 910 1	3 910 1	3 910 1
910 2	910 2	9 10 2	910 2	910 2	910 2	4 910 2	4 910 2
3 4 X X	3 4 X X	3 4 X X	3 4 X X	4 X X	4 X X	X X	8 8 X X
8 8 X X	8 8 X X	8 8 X X	8 8 X X	8 8 X X	8 8 X X	8 8 X X	X X
7 7 6 5	7 7 6 5	7 7 6 5	7 7 6 5	7 7 6 5	7 7 6 5	7 7 6 5	7 7 6 5
3 910 1	3 910 1	3 910 1	3 910 1	3 9 1	3 9 1	3 9 1 2	3 9 1 2
4 910 2	4 910 2	4 910 2	4 910 2	4 910 2	4 910 2	4 910	4 9 10
8 8 X X	8 8 X X	8 8 X X	8 8	8 810	8 810	8 810	8 8 10
7 7 X X	7 7 X X	7 7 X X	7 7 X X	7 7 X X	7 7 X X	7 7 X X	7 7 X X
6 5	6 5	6 5	6 5 X X	6 5 X X	6 5 X X	6 5 X X	6 5 X X
3 9 2	3 9 2	3 9 2	3 4 9 2	3 4 9 2	3 4 9 2	3 4 9 2	3 4 9 2
4 9 10	4 910	4 910	910	8 8 910	8 8 910	8 8 910	8 8 910
8 8 110	8 8 110	8 8 110	8 8 110	110	7 7 110	7 7 110	7 7 110
7 7 X X	7 7 X X	7 7 X X	7 7 X X	7 7 X X	X X	5 X X	5 X X
6 5 X X	6 5 X X	6 5 X X	6 5 X X	6 5 X X	6 X X	6 X X	6 X X
3 4 9 2	3 4 9 2	3 4 9 2	3 4 2	3 4 2	3 4 2 1	3 4 2 1	3 4 2 1
8 8 910	8 8 9	8 8 9	8 8 9	8 8 9	8 8 9	8 8 9	8 8 9
7 7 110	7 7 1	7 7 1	7 7 9 1	7 7 9 1	7 7 9	7 7 9	7 7 9
5 X X	5 X X10						
6 X X	6 X X10						
3 4 2 1	3 4 2 1	3 4 2 1	3 4 2 1	3 4 2 1	3 4 2 1	3 4 2 1	3 4 2 1
8 8 9	5 8 8 9	5 8 8 9	5 8 8 9	5 8 8 9	5 8 8	5 8 8	5 8 8
7 7 9	7 7 9	6 7 7 9	6 7 7 9	6 7 7 9	6 7 7	6 7 7	6 7 7
5 X X10	X X10	X X10	X X 10	X X10	X X10 9	X X10 9	X X10 9
6 X X10	6 X X10	X X10	X X 10	X X10	X X10 9	X X10 9	X X10 9
3 4 2 1	3 4 2 1	3 4 2 1					
6 5 8 8	6 5 8 8	6 5					
7 7	7 7	7 7 8 8					
X X10 9	X X10 9	X X10 9					
X X10 9	X X10 9	X X10 9					

(one move = sliding one piece any number of units in one direction)