

ずけい かいてん
図形の回転

した え かいてん なか ずけい か
下のような絵を回転させたときの、中の図形を書きましょう。

The exercise consists of four rows, each containing three boxes. Red curved arrows point from the first box to the second, and from the second to the third. Blue square arrows point from the first to the second, and from the second to the third. The first box in each row is an L-shaped figure with circles in the following positions:

- Row 1: Circles in the bottom-left and bottom-middle cells.
- Row 2: Circles in the bottom-middle and bottom-right cells.
- Row 3: Circles in the middle-left and bottom-left cells.
- Row 4: Circles in the top-left and bottom-left cells.

The second and third boxes in each row are empty L-shaped frames corresponding to the first box, intended for the student to draw the rotated figure.

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下のような絵を回転させたときの、中の図形を書きましょう。

The exercise consists of four rows, each containing three shapes. The shapes are composed of squares in a 3x3 grid. The first shape in each row is a 3x3 L-shape with circles. The second shape is a 3x3 L-shape. The third shape is a 3x3 L-shape. Red arrows indicate a 90-degree clockwise rotation from the first shape to the second, and from the second to the third. Blue arrows indicate the rotation direction.

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The diagram shows four rows, each representing a step in the rotation of a shape. Each row contains three 3x3 grids. Red curved arrows point from the first grid to the second, and from the second to the third. Blue hollow arrows point from the first grid to the second, and from the second to the third, indicating a 90-degree clockwise rotation. The shape in each grid consists of three squares in the top row and two squares in the bottom row. The contents of the grids are as follows:

- Row 1: Top-left is a circle (○), top-right is an 'x' (×).
- Row 2: Top-right is a circle (○), middle-right is an 'x' (×).
- Row 3: Top-left is an 'x' (×), bottom-middle is a circle (○).
- Row 4: Top-right is an 'x' (×), bottom-left is a circle (○).

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The diagram consists of four rows, each containing three 3x3 grids. The first grid in each row shows a circle in the top-left cell and an 'x' in the middle-right cell. A red arrow points from the first grid to the second, and a blue arrow points from the first grid to the second. The second grid shows the circle in the middle-left cell and the 'x' in the top-right cell. A red arrow points from the second grid to the third, and a blue arrow points from the second grid to the third. The third grid shows the circle in the bottom-right cell and the 'x' in the bottom-middle cell. The fourth grid in each row is empty.

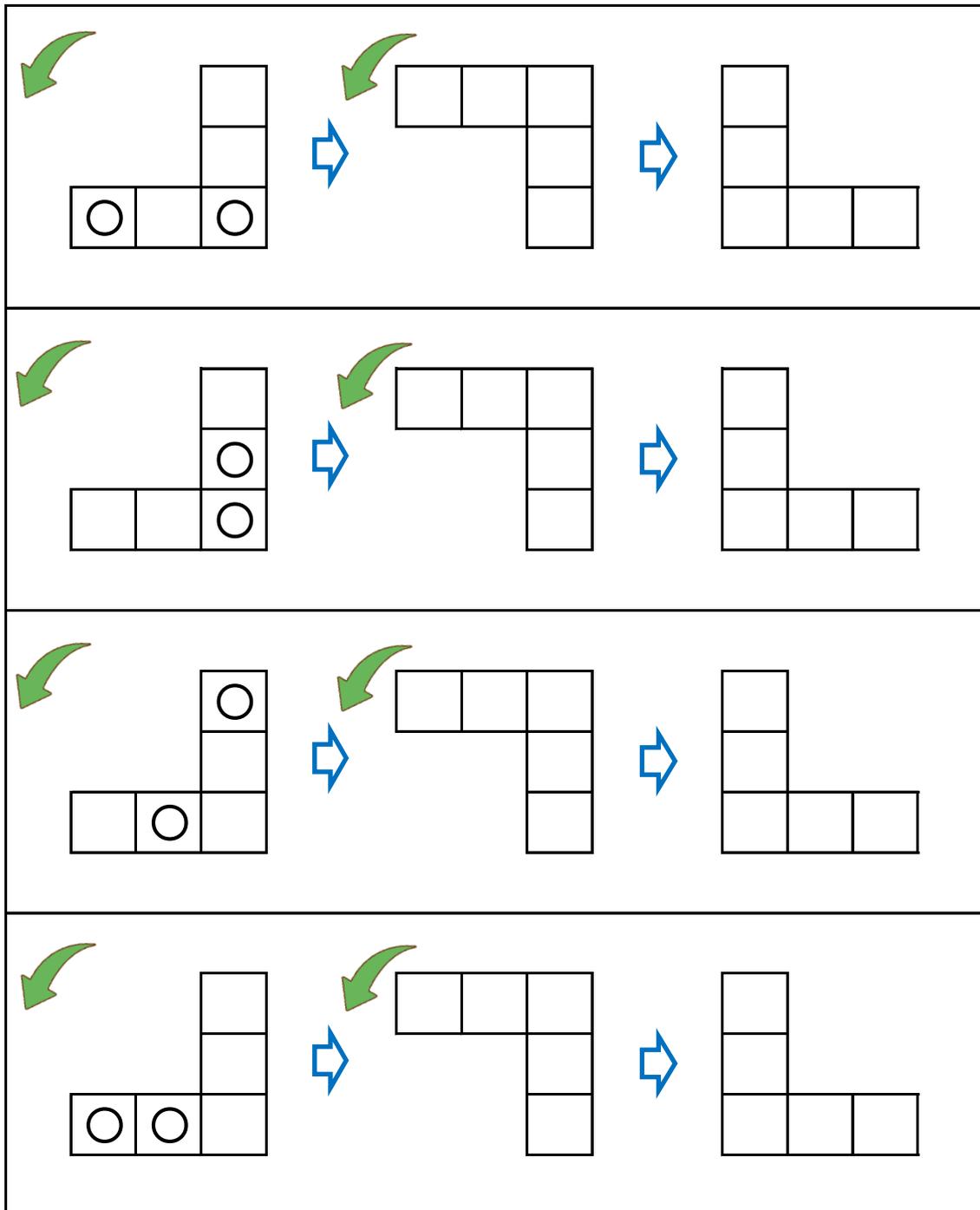
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The exercise consists of four rows, each containing three boxes. Each box shows a shape made of squares. The first box in each row has a vertical column of three squares on the left and a horizontal row of three squares on the bottom. The second box is a 90-degree clockwise rotation of the first. The third box is a 90-degree counter-clockwise rotation of the first. Green curved arrows point from the first box to the second, and from the second to the third. Blue square arrows point from the first to the second, and from the second to the third.

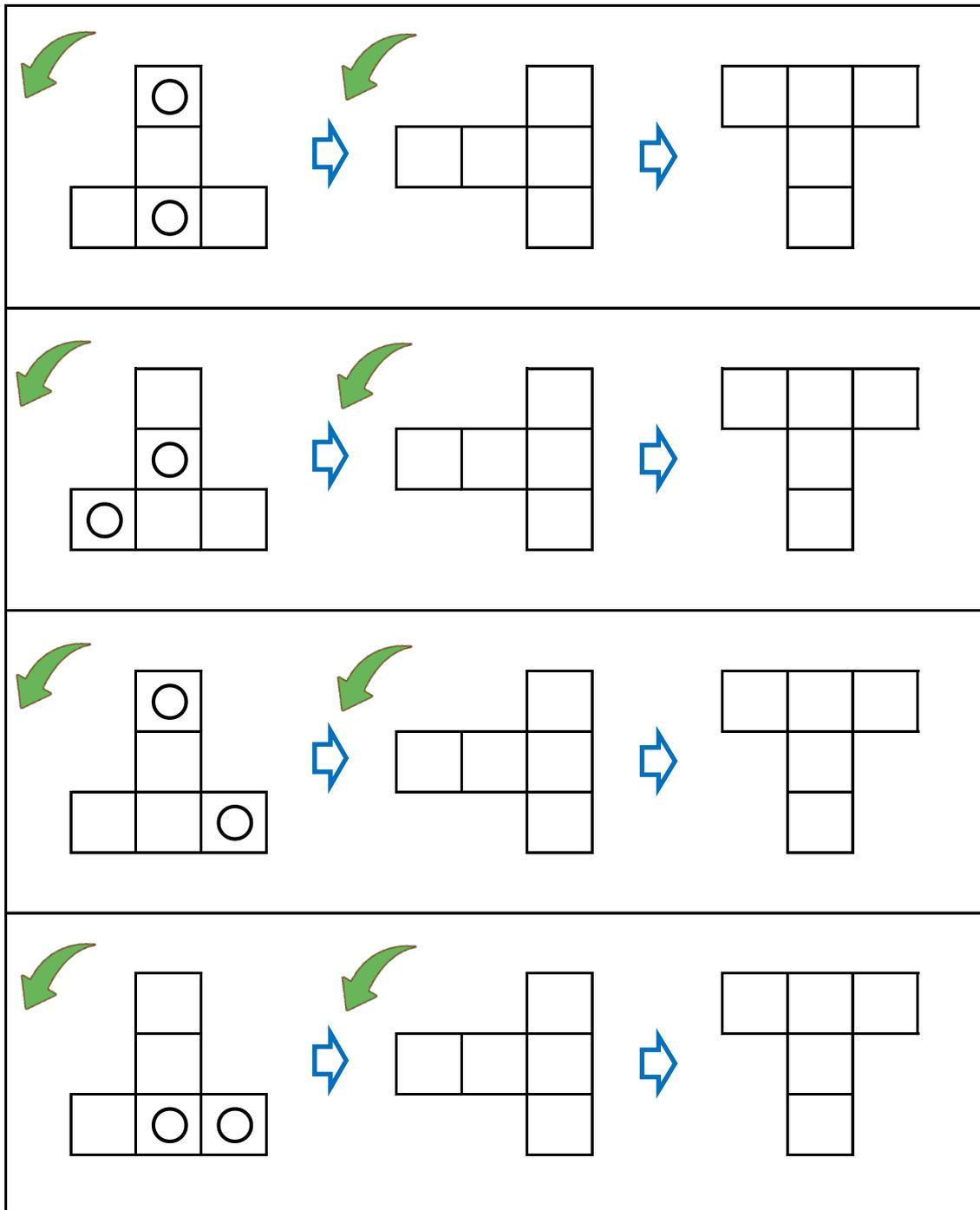
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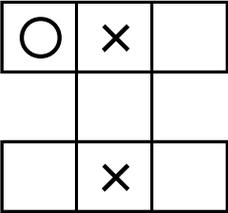
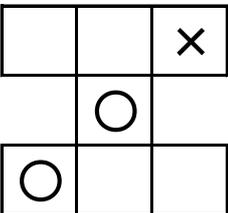
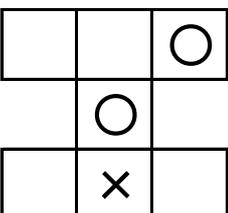
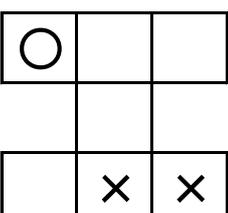
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The diagram consists of four rows, each representing a step in the rotation of a shape. Each row contains three 3x3 grids. The shape in each grid is composed of three cells: the top-left, top-middle, and bottom-middle cells. The symbols are a circle (○) and an 'x'.
- Row 1: Circle at (1,1), 'x' at (1,2).
- Row 2: Circle at (2,2), 'x' at (2,1).
- Row 3: Circle at (3,2), 'x' at (3,1).
- Row 4: Circle at (3,1), 'x' at (3,2).
Green arrows point from the first grid to the second, and from the second to the third in each row. Blue arrows point from the second grid to the third in each row.

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The exercise consists of four rows, each containing three boxes connected by blue arrows. Red arrows indicate 90-degree clockwise rotations, while green arrows indicate 90-degree counter-clockwise rotations. The shapes are composed of squares, and circles are placed in specific cells.

- Row 1:** Red arrows. Box 1: A vertical column of 3 squares with a circle in the top square, and a horizontal row of 2 squares starting from the bottom square of the column. Box 2: A horizontal row of 3 squares, a vertical column of 2 squares starting from the left square, and a single square below the left square. Box 3: A horizontal row of 3 squares, a vertical column of 2 squares starting from the right square, and a single square below the right square.
- Row 2:** Red arrows. Box 1: A vertical column of 3 squares with a circle in the middle square, and a horizontal row of 2 squares starting from the bottom square of the column. Box 2: A horizontal row of 3 squares, a vertical column of 2 squares starting from the left square, and a single square below the left square. Box 3: A horizontal row of 3 squares, a vertical column of 2 squares starting from the right square, and a single square below the right square.
- Row 3:** Green arrows. Box 1: A vertical column of 3 squares with a circle in the bottom square, and a horizontal row of 2 squares starting from the bottom square of the column. Box 2: A horizontal row of 3 squares, a vertical column of 2 squares starting from the right square, and a single square below the right square. Box 3: A horizontal row of 3 squares, a vertical column of 2 squares starting from the right square, and a single square below the right square.
- Row 4:** Green arrows. Box 1: A vertical column of 3 squares with a circle in the top square, and a horizontal row of 2 squares starting from the bottom square of the column. Box 2: A horizontal row of 3 squares, a vertical column of 2 squares starting from the right square, and a single square below the right square. Box 3: A horizontal row of 3 squares, a vertical column of 2 squares starting from the right square, and a single square below the right square.

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The exercise consists of four rows, each showing a sequence of three 3x3 grids. The first grid in each row has a circle in a specific cell. A red arrow indicates a 90-degree clockwise rotation. A blue arrow points to the resulting 3x3 grid. A second blue arrow points to the final 3x3 grid where the circle has been drawn in its new position.

- Row 1: Circle at (1,2) → (2,3) → (3,2)
- Row 2: Circle at (2,3) → (3,2) → (2,3)
- Row 3: Circle at (2,1) → (1,2) → (2,1)
- Row 4: Circle at (2,2) → (1,3) → (2,2)

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The exercise consists of four rows, each containing three shapes connected by blue arrows. The shapes are composed of squares and circles. The first row shows a 90-degree clockwise rotation (red arrow) and a 180-degree rotation (blue arrow). The second row shows a 90-degree clockwise rotation (red arrow) and a 180-degree rotation (blue arrow). The third row shows a 90-degree counter-clockwise rotation (green arrow) and a 180-degree rotation (blue arrow). The fourth row shows a 90-degree counter-clockwise rotation (green arrow) and a 180-degree rotation (blue arrow).

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The diagram shows four panels illustrating the rotation of a shape. Each panel contains a 3x3 grid. The shape to be rotated consists of three squares: the top-left square, the middle square, and the bottom-right square. The symbols 'x' and 'o' are placed in the remaining squares of the 3x3 grid. The rotation is shown in four steps:

- Panel 1: The shape is in its original orientation. 'x' is at (1,1) and 'o' is at (2,2).
- Panel 2: The shape is rotated 90 degrees clockwise. 'x' is at (2,2) and 'o' is at (1,1).
- Panel 3: The shape is rotated 180 degrees clockwise. 'x' is at (3,3) and 'o' is at (2,2).
- Panel 4: The shape is rotated 270 degrees clockwise. 'x' is at (2,2) and 'o' is at (3,3).

Red arrows indicate the rotation direction. Blue arrows indicate the transition between panels. Green arrows in the bottom two panels point to the original shape's position.

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