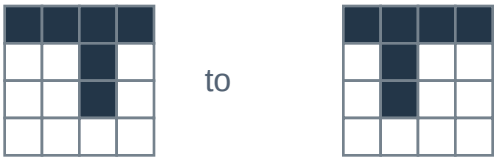
Turn or mirror?

For each pair, decide whether the first grid turns or flips to make the second.
Work around the centre of the 4-by-4 grid. A turn keeps the same face showing.

Six comparisons

For a bonus, name the angle of the turn or draw the line of reflection.

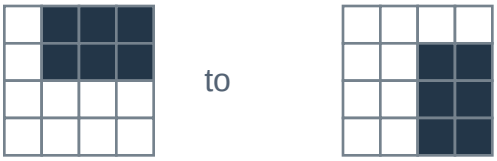
PAIR 1



Turn or mirror? _____

Angle or line: _____

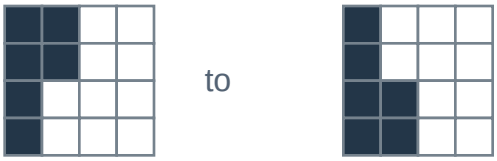
PAIR 2



Turn or mirror? _____

Angle or line: _____

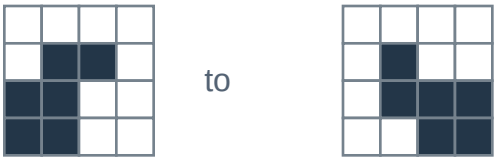
PAIR 3



Turn or mirror? _____

Angle or line: _____

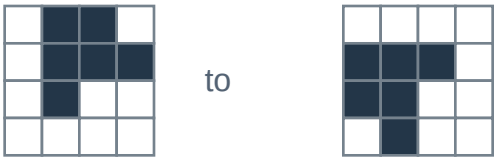
PAIR 4



Turn or mirror? _____

Angle or line: _____

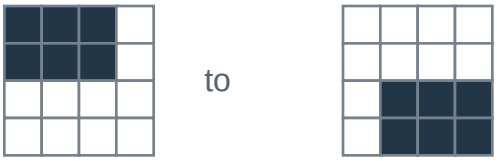
PAIR 5



Turn or mirror? _____

Angle or line: _____

PAIR 6



Turn or mirror? _____

Angle or line: _____

Check each change

Rows are numbered 1 to 4 from the top; columns are numbered 1 to 4 from the left. The cell example gives one landmark. The stated change must match all six cells.

1. Mirror left to right

Row 1, column 1 moves to row 1, column 4.

2. Turn: 90 degrees clockwise

Row 1, column 2 moves to row 2, column 4.

3. Mirror top to bottom

Row 1, column 1 moves to row 4, column 1.

4. Turn: 90 degrees counterclockwise

Row 2, column 2 moves to row 3, column 2.

5. Mirror across the top-left diagonal

Row 1, column 2 moves to row 2, column 1.

6. Turn: 180 degrees

Row 1, column 1 moves to row 4, column 4.

Try another way to check

Trace the first grid on scrap paper and rotate it without turning the paper over. If it only fits after you turn the paper over, the pair is a mirror image.

Play the Cognilo rotation-match browser lab