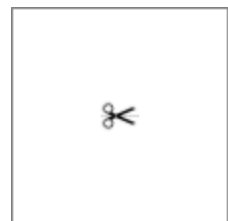
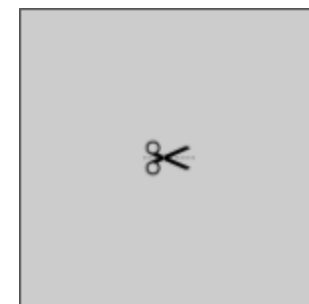
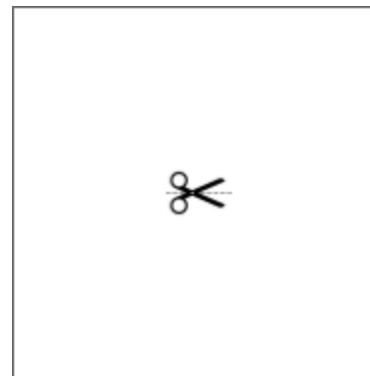
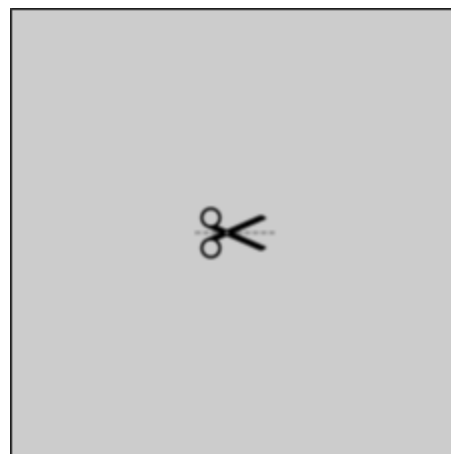
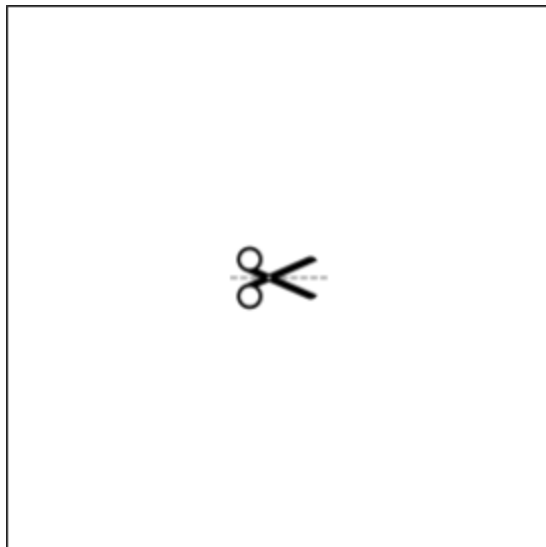


Tower of Hanoi

Cut the page in half along the dotted line. The top half is the game board. The bottom half are the game pieces. Cut out the game pieces. Stack the game pieces in SPOT 2' largest to smallest, with the biggest game piece on the bottom and the smallest game piece on top.

GOAL: Move the stack to either SPOT 1 or SPOT 2

RULES: 1. Only move one piece at a time 2. Only smaller pieces can be stacked on top of larger pieces



Tower of Hanoi

SPEED CHALLENGE

Following the rules, see how quickly you can complete the challenge.

MATH EXTENSION

- A. Using only the two smallest pieces, start at SPOT 2. Count the minimum number of moves needed to transfer the stack to either SPOT 1 or SPOT 3. Make a table like the one below and record your data.
- B. Next, repeat with the three smallest pieces and count the minimum number of moves. Record your data in the table.
- C. Continue the process with four and with five pieces. Remember, record only the minimum number of moves for each number of pieces.

# of pieces	Minimum # of moves
1	
2	
3	
4	
5	

After you complete the table, do you see a pattern emerge in the minimum # of moves?
Write what you notice here:
