

# Clip and Ring Assembly

*This is a mid-level pattern packaging task requiring pattern matching, inserting, and snapping skills.*



## Materials

- 24 carabiner clips(A)
- 180 C-rings in six colors (B)
- 2 3-compartment bins
- 1 small single-compartment bin
- 1 red storage bin

## Setup

Place the single-compartment bin with the carabiner clips to the left. Place the two 3-compartment bins with the color-sorted rings in the center. Place the red storage bin to the right. Make a sample carabiner clip and ring assembly using the colored C-rings in the bins from left to right. Place the sample clip and ring in the center in front of the bins.

## Procedure

- With one hand, take a carabiner clip and open it with the other hand.
- Take a C-ring out of the first compartment and place it on the carabiner clip, matching the ring color of the sample. Continue to hold the clip open.
- Take a ring out of the second compartment and place on the clip, matching the ring color of the sample.
- Repeat for the rings in the remaining four compartments, matching the ring colors of the sample.
- Place the completed carabiner clip in the storage bin.
- Repeat for all of the carabiner clips, matching the ring color to the sample and placing each clip in the storage bin when completed.



## Variations

Numerous variations can be created by varying the sample carabiner clip pattern. For example, use fewer C-rings, vary the order of the ring colors or ignore the color arrangement of the rings. To begin with an easy variation, use only one color.

## Norms:

Per unit – 16 seconds  
Per task (24 units) –  
6 minutes, 25 seconds

## Quality Criteria

The carabiner clips must be filled with six rings, arranged by color as in the sample. The completed clips must be placed in the red storage bin.

# Clip and Ring Disassembly

## Setup

Arrange the materials as in the assembly task. Place a sample of the clip and each color ring in the correct compartment.

## Procedure

- With one hand, take a completed carabiner clip out of the red storage bin and open it.
- Remove each colored ring and place it in the correct storage compartment.
- Place the carabiner clip in the single-compartment bin at the left.
- Repeat the previous steps for all the completed carabiner clips.

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### Norms:

Per unit – 16 seconds  
Per task (24 units) –  
6 minutes, 25 seconds

### Quality Criteria

All of the carabiner clips and the rings must be stored in the correct compartments, sorted by color.