Same Cubes, New Shape

Take a structure apart and build something different.

2.3 "Demonstrate and explain how structures made from a small set of pieces can be disassembled and then reassembled as new and different structures."

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Number the long row, pulling apart, and bridge in the order they happen, then circle the words that tell how many cubes Mia keeps.

Mia's Seven Cubes

1. Mia has seven snap cubes. She clicks all seven into one long row. The row makes a low wall for her toy cars. Each cube touches the next cube. Mia can lift the wall, but it blocks the cars.

2. Mia pulls the wall apart, one cube at a time. She keeps all seven cubes. She clicks two cubes into each of two posts. Then she clicks three cubes in a row across their tops. Now the cubes make a bridge.

3. A toy car can roll through the space under the bridge. The bridge is taller than the wall, but Mia did not add cubes. She changed where the same seven cubes go. She could pull the bridge apart and build the wall again.

2 ANSWER WITH EVIDENCE

Use the passage

1. How does Mia take the wall apart before making the bridge?

2. How does Mia use the seven cubes to make a bridge?

3. What changes when Mia builds the bridge, and what stays the same?

3 YOUR TURN

Your own words

Draw a new structure made of seven snap cubes in the first panel, then draw a different structure made from those same cubes in the second panel. Do not draw Mia's wall or bridge. Write two sentences explaining how you took the first structure apart and made the second.

ANSWER KEY

Same Cubes, New Shape

PART 1 · READ AND MARK

Number the long row, pulling apart, and bridge in the order they happen, then circle the words that tell how many cubes Mia keeps. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	How does Mia take the wall apart before making the bridge?	**She pulls the wall apart one cube at a time.**
2	How does Mia use the seven cubes to make a bridge?	**She makes two posts with two cubes each, then clicks three cubes across their tops.**
3	What changes when Mia builds the bridge, and what stays the same?	**The long, low wall becomes a taller bridge with space under it. Mia still uses the same seven cubes.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

Panel 1: four cubes in a bottom row with three cubes above them, making a step shape. Panel 2: seven cubes in one tall stack. Written response: I pull my step shape apart. I snap the same seven cubes into a tall tower.

Accept two different structures that each use seven cubes, with an explanation that the first was taken apart and the same cubes were used again. The structures must differ from Mia's wall and bridge.