Blocks Become a Bridge

Use evidence to explain how pieces can make something new.

2-PS1-3 "Construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object. (SEP: 6; DCI: PS1.A; CCC: Energy/Matter)"

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Underline how Maya takes the tower apart. Number the two bridge-building steps 1 and 2, then circle the counts that show she used the same blocks.

Maya's Snap Blocks

1. Maya has six snap blocks. She joins all six in one tall stack. It looks like a tower. She can count six blocks from the bottom to the top. No glue holds them together.

2. Maya pulls the tower apart. Now she has six loose blocks. She snaps four blocks into a long row. Then she puts one block under each end of the row. Her new shape looks like a little bridge.

3. Maya counts the blocks in the bridge. Four are on top, and two hold up the ends. That makes six blocks, just like the tower. She used the same pieces to make something new. She did not need more blocks.

2 ANSWER WITH EVIDENCE

Use the passage

1. What did Maya do to take the tower apart?

2. How did Maya use the loose blocks to make a bridge shape?

3. What counts show that Maya used the same number of blocks for both objects?

3 YOUR TURN

Your own words

Imagine four snap blocks joined in a straight row. In two sentences, tell how you would take the row apart and make a different object, then use the block count to show that you used the same pieces.

ANSWER KEY

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GRADE 2 · 2-PS1-3

PART 1 · READ AND MARK

Underline how Maya takes the tower apart. Number the two bridge-building steps 1 and 2, then circle the counts that show she used the same blocks. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	What did Maya do to take the tower apart?	**She pulled the snap blocks apart.**
2	How did Maya use the loose blocks to make a bridge shape?	**She snapped four blocks into a row and put one block under each end.**
3	What counts show that Maya used the same number of blocks for both objects?	**The tower had six blocks. The bridge had four on top and two below, which is also six.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

I pull the four snap blocks apart and join them in a two-by-two square to make a toy tile. The toy tile has four blocks, the same number as the row.

For Part 3, accept any build that can be made from four snap blocks. The response should describe taking the row apart, making a different object, and using the count of four as evidence.