

## Grade 8: Smarter Balanced Assessment Item Illustrating 8.G.A.2

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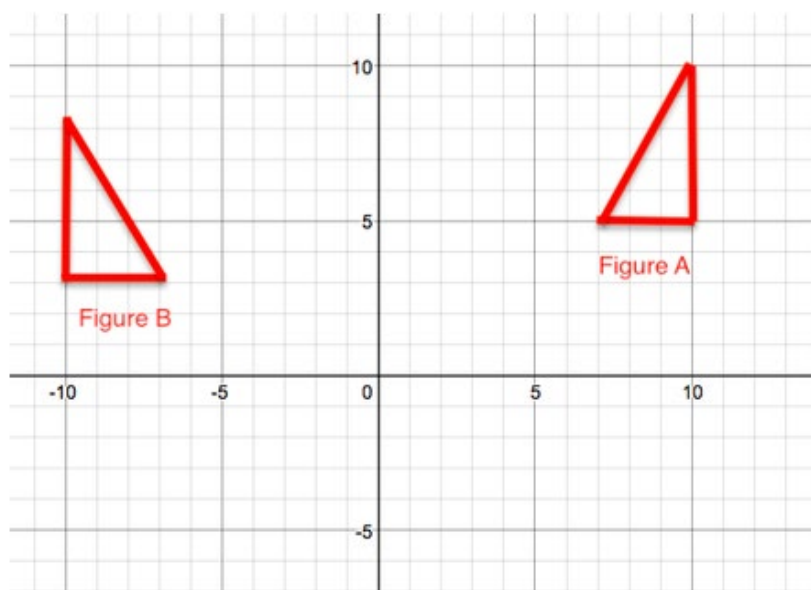
Domain: Geometry

Cluster and/or Standard: 8.G.A.2 - Correctly name shapes regardless of their orientations or overall size.

Rigor/Complexity<sup>1</sup>: Conceptual Level 2

Calculator: Neutral

Two figures are shown on the coordinate grid.



Show that Figure A and Figure B are congruent by describing a sequence of basic transformations that maps Figure A onto Figure B. In your response, be sure to identify the transformations in the order they are performed.

**Answer Key:** Student describes a set of transformations that map Figure A to Figure B

### Elaboration on Alignment:

This item addresses the definition of congruence through rigid motions established in the grade 8 standards. To ensure that we are assessing this definition of congruence through rigid motions, we have elected a problem where the transformations themselves are pretty basic.

<sup>1</sup> [A Framework to Evaluate Cognitive Complexity in Mathematics Assessments](#)