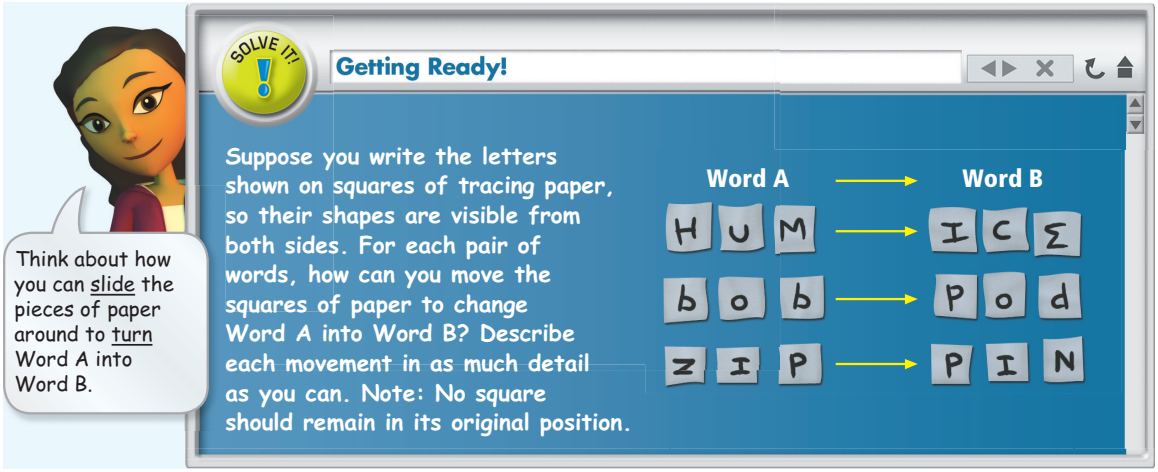
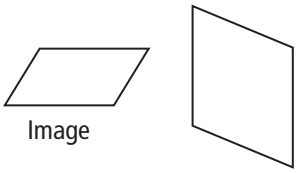
9-1 Solve It!

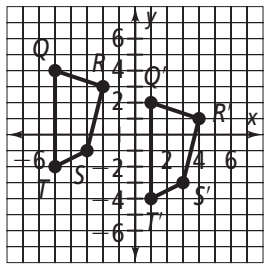


9-1 Lesson Quiz

1. Does the transformation below appear to be an isometry? Explain.



2. What is a rule that describes the translation $QRST \rightarrow Q'R'S'T'$?



3. Do you UNDERSTAND? What are the images of the vertices of ABC for the translation $(x, y) \rightarrow (x - 2, y + 3)$? The vertices are $A(5, 6)$, $B(6, -3)$, and $C(7, 2)$.

Answers

Solve It!

Answers may vary. Sample: "HUM" to "ICE": rotate H 90° clockwise, rotate U 90° clockwise, and rotate M 90° counterclockwise; "bob" to "pod": turn b over top to bottom, rotate o 180° clockwise, and turn b over left to right; "ZIP" to "PIN": rotate Z 90° counterclockwise and slide it to the third position, turn I over, and slide P to the first position.

Lesson Quiz

1. No, the figures do not appear to be congruent.

2. $(x, y) \rightarrow (x + 6, y - 2)$

3. $A'(3, 9)$, $B'(4, 0)$, $C'(5, 5)$