## Unit 1 Lesson 3: Making the Moves

### 1 Notice and Wonder: The Isometric Grid (Warm up)

#### Student Task Statement

What do you notice? What do you wonder?



### 2 Transformation Information

#### Student Task Statement

Your teacher will give you tracing paper to carry out the moves specified. Use $A^{′}$, $B^{′}$, $C^{′}$, and $D^{′}$ to indicate vertices in the new figure that correspond to the points $A$, $B$, $C$, and $D$ in the original figure.



1. In Figure 1, translate triangle $ABC$ so that $A$ goes to $A^{′}$.
2. In Figure 2, translate triangle $ABC$ so that $C$ goes to $C^{′}$.
3. In Figure 3, rotate triangle $ABC$ $90^{∘}$ counterclockwise using center $O$.
4. In Figure 4, reflect triangle $ABC$ using line $ℓ$.
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1. In Figure 5, rotate quadrilateral $ABCD$ $60^{∘}$ counterclockwise using center $B$.
2. In Figure 6, rotate quadrilateral $ABCD$ $60^{∘}$ clockwise using center $C$.
3. In Figure 7, reflect quadrilateral $ABCD$ using line $ℓ$.
4. In Figure 8, translate quadrilateral $ABCD$ so that $A$ goes to $C$.

### 3 A to B to C

#### Images for Launch



#### Student Task Statement

Here are some figures on an isometric grid.



1. Name a transformation that takes Figure $A$ to Figure $B$. Name a transformation that takes Figure $B$ to Figure $C$.
2. What is one **sequence of transformations** that takes Figure $A$ to Figure $C$? Explain how you know.



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