DO NOW

GEOMETRY · 5 MINUTES · START RIGHT AWAY

Lesson 3-4d # Determine A Glide Reflection

Name _____ Date _____ Per _____

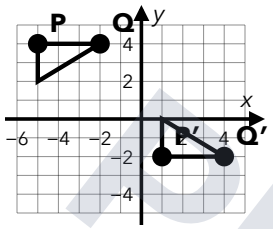
1 FLUENCY

A glide reflection maps $A(2, 3)$ to $A'(7, -3)$ and $B(4, 5)$ to $B'(9, -5)$. Describe it.

Translate ⟨ ☐ , ☐ ⟩, then reflect across $y =$ ☐

2 VISUAL MODEL

Find the midpoints of PP' and QQ'. They lie on the line of reflection. Then give the translation.



Midpts: ☐ , ☐

Line: $y =$ ☐

Translate: ⟨ ☐ , ☐ ⟩

3 APPLICATION

Rug motifs alternate above and below the center line $y = 0$. Motif 1 has a tip at (1, 2), motif 2 at (5, −2). Describe the glide and find motif 4's tip.

Translate ⟨ ☐ , ☐ ⟩, reflect across $y =$ ☐

Motif 4 tip: (☐ , ☐)

WORK

4 REASONING

Always, sometimes, or never? "A glide reflection with a nonzero translation has a fixed point (a point that maps to itself)."

Always **Sometimes** **Never**

_____

_____

*We don't divide our effort, we **multiply** it!*

✎ Show your work ✓ Check your work ★ Try your best

PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW PREVIEW

Preview - the full worksheet and its answer key are at primeworksheet.com