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Lesson 3-4b # Explore Glide Reflections

Name _____ Date _____ Per _____

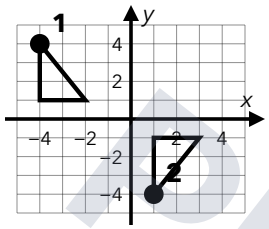
1 FLUENCY

A glide reflection translates by ⟨4, 0⟩ and then reflects across the x-axis. Find the image of $P(-3, 5)$.

$P' = (\square, \square)$

2 VISUAL MODEL

Triangle 2 is the image of triangle 1 under a glide reflection. Name the translation and the line of reflection.



Translation: ⟨ ☐, ☐ ⟩

Line: $y =$ ☐

3 APPLICATION

In a line of footprints, each print is the image of the one before it under a glide reflection. Left prints are 64 cm apart. Find the translation of one glide, and the motion from print 1 to print 5.

One glide: ☐ Print 1 → 5: translation of ☐

WORK

4 REASONING

Ben says that if you reflect first and translate second, a glide reflection gives the same image. Is he correct? **Yes** or **No**

Explain.

_____

_____

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

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

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