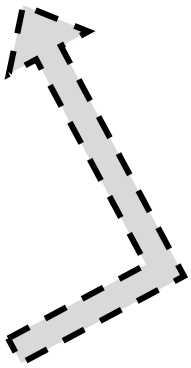
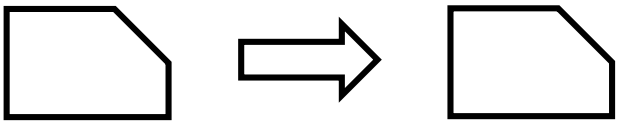
Topic: Translations **Date**: _____

Learning Objective(s):

_____

_____

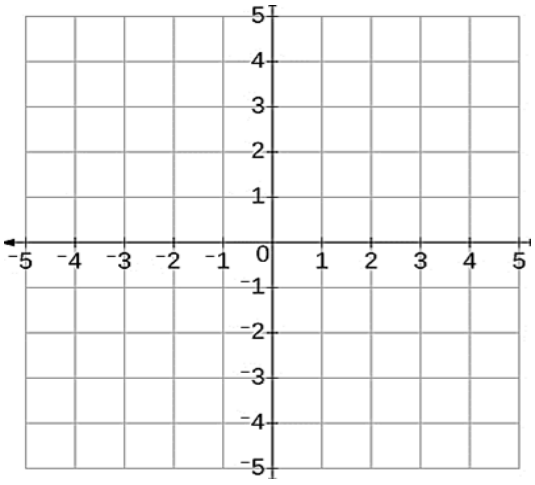
Main Ideas/ Questions	**Notes**
Translation Characteristics	• **Translation** – Moves EVERY point of a figure the same distance and direction.  • It simply "_____" a figure to a new location.  • This means a translation is an _____.
How to Translate a Figure	**Translation Rule Notation**: (x, y) → (,) • _____ indicates how many units the point moves _____ • _____ indicates how many units the point moves _____ Slide to the **right** x → Slide **up** y → Slide to the **left** x → Slide **down** y →
Examples	**Find the coordinates of the image.** 1. Left two and up five C(-2, 4) → A(0, -8) → T(-3, 5) → 2. Rule: (x + 12, y - 17) M(2, -9) → O(-6, -2) → W(0, 0) →
	Find the coordinates of the pre-image. 3. Rule: (x – 1, y + 3) → P'(-2, 4) → I'(0, -8) → G'(-3, 5) 4. Down one and right five → G'(-2, 4) → Y'(0, -8) → M'(-3, 5)

Topic: Translations **Date**: _____

Main Ideas/ Questions
Examples

Notes

5. **Translate the pre-image by going three units right and four units down. Graph both figures.**

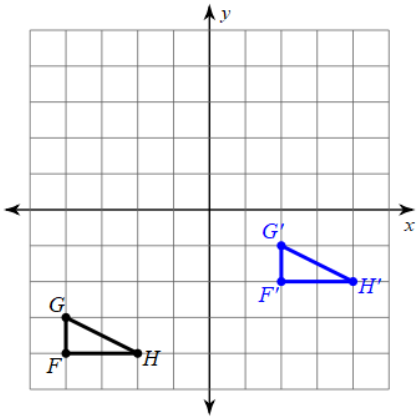


Rule:

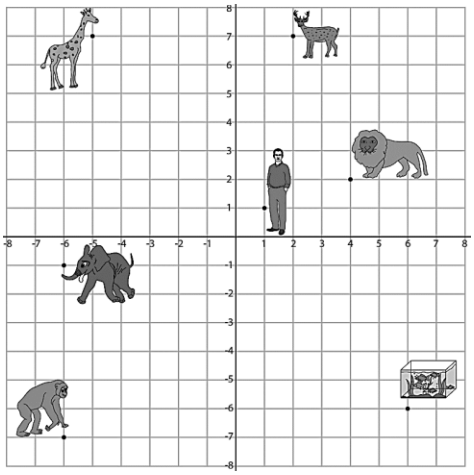
A(-4, 1) B(-2, 4)
C(0, 2) D(-1, 4)

A′(,) B′(,)
C′(,) D′(,)

6. **Create the rule that is shown on the graph below.**



Rule:



7. **Create the rule that describes the given translation.**

Person → Lion

Lion → Aquarium

Aquarium → Elephant

Giraffe → Deer

Summary
Summarize the lesson in your own words with the help of the guided questions.

How does a translation transform a figure? Why is a translation considered an isometry? How is a translation rule written and applied?