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UNIT 3 LESSON 10

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| AIM: | SWBAT identify and perform reflections  |

**THINK ABOUT IT!**

For each given pair of coordinate pairs below, do the following:

* + - * Plot both points on the coordinate grid provided.
			* Identify similarities and differences between the coordinate pairs
1. (3, 4) and (3, -4)



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1. (3, 4) and (-3, 4)



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**Test the Conjecture**

*Test the Conjecture #1)* What is the relationship between the two coordinate pairs: (-5, -3) and (5, -3)?



*Test the Conjecture #2* Point A is located at (1, -2.5). Point B is the result of a reflection of point A across the x-axis. What are the coordinates of Point B?



Conjecture

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| When two ordered pairs only differ by the sign of one coordinate, then the points are reflections across an \_\_\_\_\_\_.  |

**PARTNER PRACTICE**

* CFS for top quality work
	+ Both points are plotted
	+ Check completed for horizontal and vertical distance from each axis
	+ Axis of reflection is annotated

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| *Bachelor Level* |

1. Use the coordinate grid below to complete the table



Complete the table by locating the point on the grid after each reflection and by writing the coordinate pair of the reflected point.

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| **Given Point:** | S: (5, 3) | T: (-2, 4) | U: (3, -2) | V: (-1, -5) |
| Reflect across the x-axis |  |  |  |  |
| Reflect across the y-axis |  |  |  |  |
| Reflect across the x-axis and then the y-axis |  |  |  |  |

Based on the completed table, does our conjecture still hold true? Use evidence from the table.

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| *Master Level* |

Use the coordinate grid below to answer the following questions.[[1]](#endnote-1)



1. What are the coordinates of the point after P has been reflected over the y-axis? Explain.

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1. Reflect P over the x-axis and then over the y-axis. What are the coordinates of the new point? What do you notice about the points after two reflections?

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**INDEPENDENT PRACTICE**

* CFS for top quality work
	+ Both points are plotted
	+ Check completed for horizontal and vertical distance from each axis
	+ Axis of reflection is annotated

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| *Bachelor Level* |

Use the coordinate grid below to answer the following questions



1. Plot (4, 5) on the coordinate grid and reflect it over the y-axis.
2. Plot (-9, 2) on the coordinate grid and reflect it over the x-axis.

When we reflect a point over the y-axis, what do you notice about the relationship between the coordinates of the x- and y-values in each pair?

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When we reflect a point over the y-axis, what do you notice about the relationship between the coordinates of the x- and y-values in each pair?

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| *Master Level* |

1. Diego says that the points (-3.04, -2.25) and (-3.04, 2.25) are reflections over the y-axis. Do you agree or disagree. Explain.

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1. Use the coordinate grid to answer the following questions



* 1. Plot point B at (-0.5, 1 ½). Reflect point B over the y-axis. What are the coordinates of the new point?
	2. Plot point C at (5 ½, -2.5). Reflect point C over the x-axis. Then, reflect the point over the y-axis. What are the coordinates of the new point?
1. Lily drew a map of certain locations in relation to home.



* 1. How would you describe the relationship between the location of her home and the gym? Explain why.

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* 1. Lily’s school is related to the grocery store by a reflection over the y-axis. What are the coordinates of the school?

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| *PhD Level* |

1. When the coordinates of two points are (x, -y) and (x, y), how are the points related? Explain.

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1. When the coordinates of two points are (x, -y) and (-x, -y), how are the points related? Explain.

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**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

* CFS for top quality work
	+ Both points are plotted
	+ Check completed for horizontal and vertical distance from each axis
	+ Axis of reflection is annotated

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EXIT TICKET**

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| Self-assessment | I mastered the learning objective today. | I am almost there.  | Need more practice and feedback. |
| Teacher feedback | You mastered the learning objective today. | You are almost there.  | You need more practice and feedback. |

1. Gene plotted (-0.3, $-\frac{7}{10}$) and then plotted (-0.3, $\frac{7}{10}$). What is the relationship between the two points? Explain.

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1. Gene then reflected (-0.3, $\frac{7}{10}$) over the y-axis and then over the x-axis. What are the coordinates of the point after the two reflections?
1. Author and Source Unknown.  Achievement First does not own the copyright in “Coordinate Grid Image” and claims no copyright in this material.  The material is being used exclusively for non-profit educational purposes under fair use principles in U.S. Copyright laws. The user should make the judgment about whether this material may be used under fair use / fair dealing permissions in the user’s country. [↑](#endnote-ref-1)