Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_ Period: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_

**2.3B Multiple Transformations\_ Classwork**

*OBJECTIVE: Identify reflections. Reflect figures in the x-axis or the y-axis of the coordinate place. CCSS: 8.G.1, 2 and 3*

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| 1.    Image result for graphing  A’: L’: T’:  A’’: L’’: T’’: | 2.  Image result for graphing  T’: A’: B’:  T’’: A’’: B’’: |
| 3.  Image result for graphing  C’: A’: B’:  C’’: A’’: B’’: | 4.  Image result for graphing  E’: A’: T’:  E’’: A’’: T’’: |
| 5.  The coordinates of a point and its image are given. Is the reflection in the x-axis or the y-axis? Explain.  (-8, 3) 🡪 (8, 3) | 6.  The coordinates of a point and its image are given. Is the reflection in the x-axis or the y-axis? Explain.  (-2, 4) 🡪 (-2, -4) |
| 7.  Identify and write a rule for the transformations.  (x, y) 🡪  PRE-IMAGE  IMAGE | 8.  Identify and write a rule for the transformations.  x, y) 🡪 |

**Practice Problems- textbook: page 59 #19-24**

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| 1. The coordinates of a point and its image are given. Is the reflection in the x-axis or the y-axis? Explain.   (2, -2) 🡪 (2, 2) | 1. The coordinates of a point and its image are given. Is the reflection in the x-axis or the y-axis? Explain.   (-4, 1) 🡪 (4, 1) |
| 1. The coordinates of a point and its image are given. Is the reflection in the x-axis or the y-axis? Explain.   (-2, -5) 🡪 (2, -5) | 1. The coordinates of a point and its image are given. Is the reflection in the x-axis or the y-axis? Explain.   (-3, -4) 🡪 (-3, 4) |
| 1. Find the coordinates of the figure after the transformation: Translate the triangle 1 unit right and 5 units down. Then reflect the image in the y-axis     S’: T’: R’:  S’’: T’’: R’’: | 1. Find the coordinates of the figure after the transformations: Reflect the trapezoid in the x-axis. Then translate the trapezoid 2 units left and 3 units up.     X’: Y’: Z’: W’:  X’’: Y’’: Z’’: W’’: |