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

**2.5A Notes – Similar Figures**

*Objective: Analyze two figures to determine if they are similar. Find unknown measures of similar figures. CCSS: 8.G.4*

*HW: (2.5A) p. 74 #4, 5, 8 – 13.*

\*\*\* Start with warm up on back \*\*\*

**Read p. 72-73. Fill in the blanks and use the examples to answer the questions below.**

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|  Triangle ABC is similar to Triangle DEF $\left(⊿ABC \~ ⊿DEF\right)$ **Two figures are similar** when * \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ side lengths are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .
 |
| 2.5A EXAMPLE 1 (p. 72) |
| Big Ideas Math Video 2.5 – Example 1Which parallelogram is similar to Parallelogram A? |

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| 2.5A EXAMPLE2 (p. 73)The triangles are similar. Find x. |
| Big Ideas Math Video 2.5 – Example 2The triangles are similar. Find x. |

Tell whether the two figures are similar. Explain your reasoning.

|  |  |
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\*\*\*\*\*\*\***WARM UP** – Use your notes to help answer the warm up questions\*\*\*\*\*\*\*\*

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| 1. The vertices of a triangle are A(2, 5), B(1, 2) and C(3, 1). Reflect the triangle in the x-axis, and then rotate the triangle 90o counterclockwise about the origin. What are the coordinates of the image?

**(2.3A Notes (back) and 2.4A or B Notes)** |
| 1. The vertices of a triangle are A(2, 4), B(2, 1) and C(5, 1). Dilate the triangle with respect to the origin using a scale factor of 2. Then translate the triangle 2 units left and 1 unit up. What are the coordinates of the image?

**(2.7 Notes and 2.2A or B Notes)** |

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**Lesson Launch**



Warm up #1 & 2) Ch. Test, p. 96 #7 and #8