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

**2.5A Similar Figures\_Classwork**

*Objective: name corresponding angles, and corresponding sides of similar figures; identify similar figures; find unknown measures of similar figures. CC.SS.8.G.4*

*HW: textbook pg 74 #4,5, #8-13 ALL*



**Two figures are similar** when

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ side lengths are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ angles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .



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| --- |
| What is a proportion? Are the two ratios 2:3 and 4:6 equal? Explain. Are the ratios 2:3 and 8:9 equal? Explain.  |
| **Reducing Photographs:** You are trying to reduce the photograph to the indicated size for a natural magazine. Can you reduce the photograph to the indicated size without distorting or cropping? Explain your reasoning. |

**READ EXAMPLE #1, #2 (p. 72-73)**

Copy the Big Ideas Math Videos (2.5, Example 1) and (2.5, Example 2)

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| --- |
| **2.5 – Example 1**Which parallelogram is similar to Parallelogram A? |
| **2.5 – Example 2**The triangles are similar. Find x. |

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

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**WARM-UP**

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| 1. The triangles are similar. Find x.

 |
| 1. Which rectangle is similar to Rectangle A?

 |

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per:\_\_\_\_\_\_\_\_\_\_\_\_\_

2.5A Similar Figures – Exit Slip

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| --- |
| 1. Are the figures Similar? Use a proportion to prove your answer. |
| 2. The figures are similar. Find the missing side length x. |

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per:\_\_\_\_\_\_\_\_\_\_\_\_\_

2.5 Similar Figures – Exit Slip

|  |
| --- |
| 1. Are the figures Similar? Use a proportion to prove your answer. |
| 2. The figures are similar. Find the missing side length x. |

**CLASS SET. DO NOT WRITE ON THIS. LEAVE FOR NEXT CLASS ☺**

**HW: (2.5A) p. 74 #4, 5, 8 – 13 (solutions on p. A14)**



