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

**2.1A NOTES – Congruent Figures**

*Objective: Name corresponding angles and sides of congruent figures. Identify congruent figures. Use congruency marks. CCSS: Preparing for 8.G.2*

*HW: (2.1) p. 46 #4 - 9, 11, 12, 15 (copy the figures in #6 – 9)*

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| **Identifying Congruent Figures**Two figures are congruent when \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ are congruent. Triangle ABC is congruent to Triangle DEF.

|  |  |  |
| --- | --- | --- |
| Image result for Congruent triangles | Corresponding Angles | Corresponding Sides |

You cannot assume two shapes are congruent if there are no \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.  |

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| --- | --- | --- | --- |
| ***2.1, Ex. 1. The figures are congruent. Name the corresponding angles and corresponding sides.***

|  |  |  |
| --- | --- | --- |
|  | ***Corresponding Angles*** | ***Corresponding Sides*** |

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| --- | --- |
| ***2.1, Ex.2.*** ***Tell whether the two figures are congruent. Explain your reasoning.*** | ***2.1, Ex. 3*** |

**BACK 🡪**

**ON YOUR OWN**

|  |  |
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| 1. Use Congruency marks to show the 2 pentagons are congruent.

 | 1. Trapezoids ABCD & EFGH are congruent.

1. What is the length of FG?
2. What is the perimeter of Trapezoid EFGH?
 |

|  |
| --- |
| 1. Are these figures congruent? How do you know? EXPLAIN
2. b)

   |
| 1. Two figures are congruent. Answer the following problems.

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Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table# \_\_\_\_ Period \_\_\_ **Exit Slip (2.1)**

1. Draw a triangle.
2. Draw a second triangle that is congruent to it.
3. Mark the **corresponding sides** and **corresponding angles** of the congruent figures.