Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_\_\_\_ Date:

Congruent Figures Homework Day 1- Big Ideas 2.1

Tell whether the triangles are *congruent* or *not congruent*. Explain why or why not.

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| **TA: C:\replacearts\Blue Resources by Chapter\Blue Chapter 2 RBC\Arts\PNGs\mscc8_rbc_0201_10.png**1. | **TA: C:\replacearts\Blue Resources by Chapter\Blue Chapter 2 RBC\Arts\PNGs\mscc8_rbc_0201_11.png**2. |

The figures are congruent. Name the corresponding angles and the corresponding sides.

**Use the correct symbols when naming** $\overbar{segments}$ **and** $∠$**angles!!!!!!**

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| TA: C:\replacearts\Blue Resources by Chapter\Blue Chapter 2 RBC\Arts\PNGs\mscc8_rbc_0201_12.png3.Angles: Sides:\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ | TA: C:\replacearts\Blue Resources by Chapter\Blue Chapter 2 RBC\Arts\PNGs\mscc8_rbc_0201_13.png4.Angles: Sides:\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ |

**Tell whether the two figures are congruent. Explain your reasoning.**

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| TA: C:\replacearts\Blue Resources by Chapter\Blue Chapter 2 RBC\Arts\PNGs\mscc8_rbc_0201_14.png5. | TA: C:\replacearts\Blue Resources by Chapter\Blue Chapter 2 RBC\Arts\PNGs\mscc8_rbc_0201_15.png6. |

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| TA: C:\replacearts\Blue Resources by Chapter\Blue Chapter 2 RBC\Arts\PNGs\mscc8_rbc_0201_16.png7. Describe and correct the error in telling whether the two figures are congruent.Both figures have four sides and corresponding angle measures are equal. So, they are congruent. |

**Section 2.1 Day 1 Answer Key:**

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| --- | --- | --- |
| 1. congruent | 2. not congruent | 3.Angles:  Sides: $\overbar{AB}$ and $\overbar{DE}$, $\overbar{BC}$ and $\overbar{EF}$, $\overbar{CA}$ and $\overbar{FD}$ |
| 4.Angles:  Sides: $\overbar{GH }$and $\overbar{KL}$, $\overbar{HI}$ and $\overbar{LM}$, $\overbar{IJ}$and $\overbar{MN}$, $\overbar{JG}$and $\overbar{NK}$ | 5. not congruent; Corresponding side lengths are not congruent. |
|  6. congruent; Corresponding side lengths and corresponding angles are congruent. | 7. The corresponding sides are not congruent, so the two figures are not congruent. |