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

**2.1A Congruent Figures\_Classwork**

*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) -- solutions on p. A12*

*Solutions to #12a) 32 ft b)* $∠M$ *c) 20 ft. d) 96 ft.*

* Review 2.1 Vocabulary words (congruent figures, corresponding angles, corresponding sides)
* READ 2.1 (p. 44-45).
* Do Examples 1, 2 and 3 below.
* **WATCH BIG IDEAS MATH VIDEOS: Chapter 2, Section 2.1, Examples 1, 2, and 3 to check your answers.**

Login to bigdieasmath.com. Go to APPS. Select “web” from BIG IDEAS MATH VIDEOS. Select “Common Core Middle School 2017.” Select our textbook. Chapter 2, Section 2.1, Examples 1, 2, & 3

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

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

 |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **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 |

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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.

 |

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.