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|  | Topic/Objective: More Triangle Proofs | |  |
| Essential Question: When given a congruence statement about two triangles how can you use CPCTC? | | | |
|  | | Consider the figures below with    List the congruency statements about these triangles.  Now consider the following theorem.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Quick Write.**  When given a congruence statement about two triangles, how can you use CPCTC?          **Quick Write:**  How can rigid motion(s) be used to determine congruence?  By definition, two figures are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ if and only if there exists one, or more \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ which will map one figure onto the other.    What rigid motion maps onto ?  Justify the use of the SSS Congruence Postulate to prove that    Find a rigid motion that will map onto     1. Suppose that and Justify the use of the SAS Congruence Postulate to prove that . 2. Suppose that your friend suggests a translation as the rigid motion that maps onto Is your friend correct? Justify your answer.     Find a combination of rigid motions that will map onto and determine if  **Your turn:**      **Use Triangle Congruence to find missing variables.**  Find the values of x in order to prove that the two triangles are congruent by the SAS Congruence Postulate. Justify your work.    Find the value of y in order to prove that the two triangles are congruent using the ASA Congruence Postulate. Justify your work.    Find the values of x and y that prove the two triangles are congruent using the SSS Congruence Postulate.    **Your turn:**   1. Find the values of x and y that prove the two triangles are congruent using the AAS Congruence Theorem. Justify your work. | |
| Summary: | | | |