GSE Geometrywith Support **Unit 2 Part 3 Review Sheet #2** Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Congruency

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| **Topic**: Corresponding Parts | **Things to Remember**:   * Triangle statement must have the SAME ORDER (follow congruent marks!) |
| **Examples**: | |
| Image result for congruent triangles | 2. |
| **Topic**: Triangle Congruency | **Things to Remember**:   * Triangles can be congruent 5 different ways: SSS, SAS, AAS, ASA, and HL |
| **Examples**: | |
| 3. by \_\_\_\_\_\_\_  See the source image | 4. by \_\_\_\_\_\_See the source image |
| 5. by \_\_\_\_\_\_  See the source image | 6. Are these triangles congruent? Why or why not?  See the source image |
| 7. by \_\_\_\_\_\_  See the source image | 8. by \_\_\_\_\_\_  See the source image |
| 9. **Given**: and  What OTHER piece of information is needed to show and by ASA?  See the source image | 10. **Given**: and  What OTHER piece of information is needed to show and by AAS?See the source image |
| 11. **Given**: and  What OTHER piece of information is needed to show and by SAS?  See the source image | 12. **Given**: and  What OTHER piece of information is needed to show and by SSS?  See the source image |
| 13. **Given**: and  What OTHER piece of information is needed to show and by SAS?  See the source image | 14. WhatOTHER piece of information is needed to show and by HL?  See the source image |
| 15. WhatOTHER piece of information is needed to show and by ASA?  See the source image | 16. **Given**:  What OTHER piece of information is needed to show and by AAS?  See the source image |
| **Topic**: Proofs | **Things to Remember**:   * State what is given FIRST * MARK YOUR DIAGRAM! * Step 1 – Write down the givens * Step 2 – Make any marks that you know are congruent (reflexive property, vertical angles,) * Step 3 – **BUILD OFF YOUR GIVENS; YOU CANNOT ASSUME ANYTHING IF IT IS NOT TOLD TO YOU!!!** * Step 4– Statement will always be showing the Triangles are (SSS, SAS, ASA, AAS, HL |
| **Examples**: | |
| 17. If M bisects XY, what can you assume?  See the source image | 18. If T bisects RV and US, what can you assume? |
| SSS SAS ASA AAS HL Vertical Angles are  Reflexive Property Given Definition of Bisector | |
| 19. Given: M bisects XY and  Prove:  See the source image   |  |  | | --- | --- | | **Statements** | **Reasons** | | 1. | 1. | | 2. | 2. | | 3. | 3. | | 4. | 4. | | 5. | 5. | | 20.  Prove:  See the source image   |  |  | | --- | --- | | **Statements** | **Reasons** | | 1. | 1. | | 2. | 2. | | 3. | 3. | | 4. | 4. | |