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| **Unit 2 Study Guide Part 2** | Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ S \_\_\_\_\_\_ |
| 1) Determine the dilation scale factor. | 2) Find the missing side, ?. |
|  |  |
| **Determine if each set of triangles are similar by AA~, SAS~ or SSS~. Otherwise, write Not Possible.** |
| 3) | 4) |
| 5) | 6) |
| 7) $∆RQS\~∆UTS$ | 8) |
| 13) If $\overbar{DE}=3x –15 and \overbar{AC}=30$, find x. | 14) Given that M, P, & N are midpoints and the perimeter of $∆MPN=61$, what is the perimeter of $∆XYZ$? |

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| **For all by-hand constructions use a compass and straightedge. DO NOT erase your construction marks.** |
| 15) Copy the angle. | 16) sConstruct a regular hexagon inscribed in the circle.  |
| 17) Bisect the angle.  | 18) Construct a perpendicular bisector.  |
| 19) Construct a parallel line through the given point. | 20) Construct a square inscribed in a circle. |

**Constructions Review**

Match each construction to its image. Highlight the first step of each construction. If complete, highlight the last step of the construction in another color. If incomplete, complete the construction.

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| 21) \_\_\_\_\_\_\_\_\_ Copying an angle22) \_\_\_\_\_\_\_\_\_ Hexagon inscribed in a circle 23) \_\_\_\_\_\_\_\_\_ Copying a line segment24) \_\_\_\_\_\_\_\_\_ Bisecting an angle 25) \_\_\_\_\_\_\_\_\_ Square inscribed in a circle 26) \_\_\_\_\_\_\_\_\_ Parallel line27) \_\_\_\_\_\_\_\_\_ Perpendicular bisector28) \_\_\_\_\_\_\_\_\_ Perpendicular line through a point on the line 29) \_\_\_\_\_\_\_\_\_ Perpendicular line through a point NOT on the line30) \_\_\_\_\_\_\_\_\_ Equilateral triangle inscribed in a circle | 1.
 | 1.
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| 1.
 | 1.
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| 1.
 | 1.
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| 1.
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