Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Unit 2C Quiz Practice**

**I. Triangle Proportionality**

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| --- | --- |
| 1. Solve for the missing length. | 2. Find the missing length. |
| 3. Determine if is parallel to  See the source image | 4. Determine if is parallel to  See the source image |

**II. Dilations and Scale Factor**

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| 1. **Graph** the new image using the rule   and centered at the origin.   1. What type of dilation was performed?   See the source image | 6.  See the source image   1. Find the center of dilation. 2. Calculate the scale factor. | | |
| 7.  See the source image   1. Find the center of dilation. 2. Calculate the scale factor. | 8.  a. How does perimeter change with scale factor?  b. How does area change with scale factor?  **III. Similar Figures**  9. Solve for ED.  See the source image | |
| 10. What two properties must similar figures have? (HINT: something about the sides AND angles) | | 11. Shawn looked at a map and saw a scale of 1 in: 3 miles. The city of Kennesaw was 3 inches from Marietta. How far away is Kennesaw from Marietta? | | |
| **IV. Proving Similar Triangles**  12. What are the only ways triangles can be similar?  **a) State if the triangles are similar or not. B) If they are similar, complete a similarity statement.** | | | | |
| 13. | | 14. | | |