Unit 4 – Vocabulary/Naming/Notation Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_

1. In your own words, describe each of the transformations listed below:
   1. Translation:
   2. Vertical Stretch:
   3. Reflection:
   4. Horizontal Compression:
   5. Rotation:
2. Which of the following are congruence mappings? Select all that apply.

|  |  |  |
| --- | --- | --- |
| a. Translation | b. Reflection | c. Dilation |
| d. Vertical Compression | e. Rotation | f. Horizontal Stretch |

1. Which of the following do not preserve angle measures? Select all that apply.

|  |  |  |
| --- | --- | --- |
| a. Translation | b. Reflection | c. Dilation |
| d. Vertical Compression | e. Rotation | f. Horizontal Stretch |

1. Draw an example of a “linear pair”.
2. What does it mean for two angles to be referred to as “vertical angles”? Draw an example.
3. What is a postulate? Give an example of a postulate which we have used in class.
4. What is a theorem? Give an example of a theorem which we have used in class.
5. What are the 8 properties of equality?
6. What kind of proof uses a series of boxes connected by arrows or lines to show the progression of an argument?

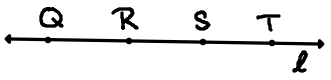
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| Paragraph Proof | Flow-chart Proof | Two-Column Proof |

1. What kind of proof shows the statements and reasons of an argument parallel to each other?

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| Paragraph Proof | Flow-chart Proof | Two-Column Proof |

1. What kind of proof reads easily like an essay with a thesis statement and a conclusion?

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| Paragraph Proof | Flow-chart Proof | Two-Column Proof |

1. Name all of the unique segments from the diagram:
2. Draw an example of the following bisectors and label them accordingly:

Perpendicular Bisector Angle Bisector