| | (Kau) |
|-------|--|
| Name: | Date: Hour: |
| | Vocabulary/Naming/Notation Review |
| 1. | IM is an example of a(n) Segment. |
| 2. | Give 3 unique names for the following figure: Answers Vary. Ex: 1, AR ST |
| | QRST |
| | L |
| 3. | Using the above figure, name all of the distinct rays: Must name lo rays. |
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| | |
| 4. | Sketch an example of a plane which could be named Plane XYZ or Plane A: |
| | Answers Vary. Ex. |
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| | /·W·Y |
| | |
| | Define a bisector and give two examples of different types we've discussed in class. |
| | A bisector is a line, ray, or segment which divides another |
| | figure : Ata trus and balves |

tigure into two equal halves.

Examples from class: Angle bisector, Perpendicular bisector, Segment bisector

- 6. Give two examples of an isometry: Translation / Reflection / Botation
- 7. Give three examples of rigid transformations which can be found in the real world and explain which Answers Vary transformations they are:

8. Why is a dilation not an example of a rigid transformation?

Does not preserve size/congruence

9. Write a single ordered pair rule to represent the following transformations:

a. Vertical stretch: Answers Vary

b. Dilation with a scale factor of 1/2: $(x,y) \rightarrow (\frac{1}{2}x,\frac{1}{2}y)$

c. Reflection over y = x: $(x, y) \rightarrow (y, x)$

d. Translation left 6 units and up 3 units: $(\chi, \gamma) \xrightarrow{\langle -\ell_1, 3 \rangle} (\chi - \ell_1, \gamma + 3)$

e. Rotation of 180° about the origin: $(x,y) \rightarrow (-x,-y)$

f. Horizontal compression: Answers Vary

10. What are the four key features required in a definition of a rotation?

· Center · Angle of rotation · Direction · Preimage -> Image

11. When dilating or stretching/compressing a figure, are any values not possible for the scale factor? Explain.

Zero or any negative values are not possible. With a factor of zero, there would be no image, so no transformation. With a negative value, it represents a reflection, not a dilation/stretch.

12. A friend is looking in a mirror and claims that what they see is the same as rotating 180°. Is this correct? Justify your answer.

No, justifications vary.