Name:

Date:

School:

Facilitator:

6.01 Transformations

**Part 1:** Name the transformation: Reflection, Rotation or Translation:

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| --- | --- | --- |
|  |  |  |
| 1. Type of transformation:       |  | 2. Type of transformation:       |
|  |  |  |
|  |
| 3. Type of transformation:       |  |  |

**Part 2: Reflection:** State if the figure has a reflection that carries onto itself. If so state how many lines of symmetry the figure has.

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| --- | --- | --- |
|  |  |  |
| 4. Does this figure have a reflection that carries onto itself?      If so, how many lines of symmetry have?      | 5. Does this figure have a reflection that carries onto itself?      If so, how many lines of symmetry have?       | 6. Does this figure have a reflection that carries onto itself?      If so, how many lines of symmetry have?       |

**Rotation:** State if the above figure has a rotation that it carries onto itself. If so describe the rotation as a 90⁰, 180⁰ or 270⁰ turn.

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| --- | --- | --- |
|  |  |  |
| 7. Does this figure have a rotation that carries onto itself?      If so, is it 90°, 180°, or 270°?       | 8. Does this figure have a rotation that carries onto itself?      If so, is it 90°, 180°, or 270°?       | 9. Does this figure have a rotation that carries onto itself?      If so, is it 90°, 180°, or 270°?       |

10. What does isometry mean?

11. Write a short paragraph comparing these three transformations. What do they have in common? How are they different?