Name:

Date:

School:

Facilitator:

6.01 Transformations

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

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 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.

|  |  |  |
| --- | --- | --- |
|  |  |  |
| 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?