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| **Vocabulary Word** | **Definition** |
| **Tessellation** | …A repeated geometric design that covers a plane without gaps or overlaps. It is created by taking an image and using multiple transformations to alter the image, then copying it down repeatedly. |
| **Dilation** | …zooms in or out. |
| **Scale Factor** | A scale factor describes the change in size from the original figure to its newly transformed image.  |
| **Enlargement** | If the scale factor is greater than 1, the dilation is an enlargement. |
| **Reduction** | If the scale factor is less than 1, the dilation is a reduction. |
| **Transformation** | …A change of position, shape, or size of a figure. There are 4 different types of transformations. *(Dilation, Translation, Reflection, & Rotation)* |
| **Image** | Using “**Prime Notation**”, we can mark a newly transformed image to make it distinctive from its original format. |
| **Translation** | …slides a figure up, down, left, or right. |
| **Reflection** | …flips a figure horizontally or vertically. |
| **Rotation** | …turns a figure a certain number of degree; clock-wise, or counter-clock-wise |
| **Center of Rotation** | The point in which a figure is rotated around. |