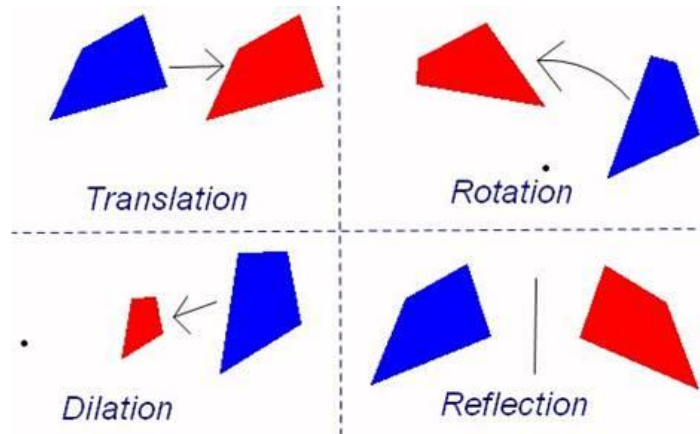


Transformations, Rigid Motions, and Pre-image/ Image

Transformation definition: a thorough or dramatic change in form or appearance



Why important in real life?

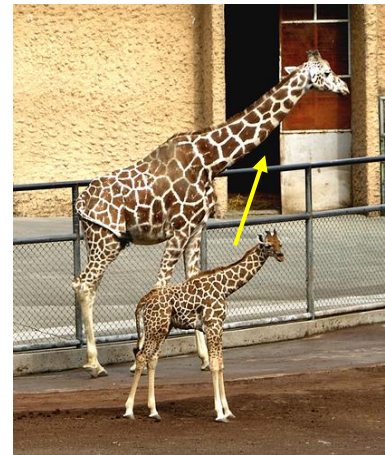
- It's important because you can use all these when moving something or trying to reflect something on paper and it can be used when you dilate your weight.

Real Life Examples:

Reflection:



Dilation:



Rotation:



Translation:



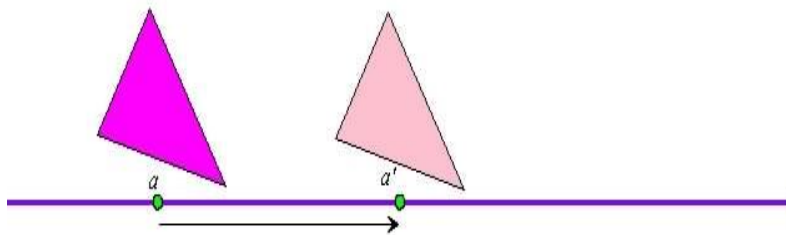
Rigid motion Definition: is the action of taking an object and moving it to a different location without altering its shape or size.

Why important in real life?: its important in real life because if you want to make something and move it and don't want to change the shape or the size of the object.

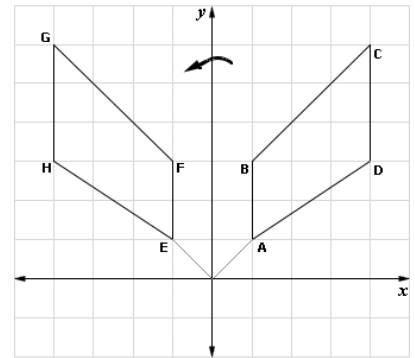
Exmaples of rigid motions:

Doesn't change shape or size.

Rotations



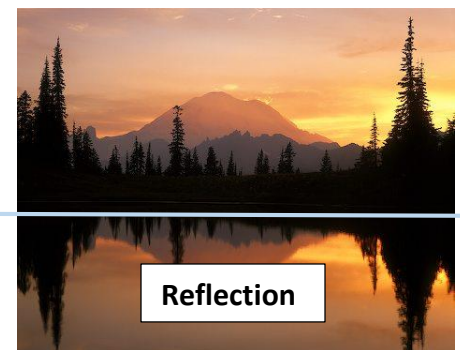
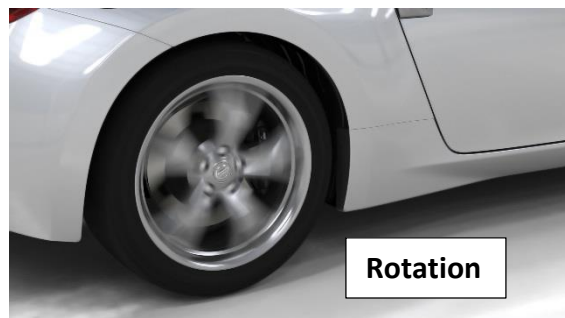
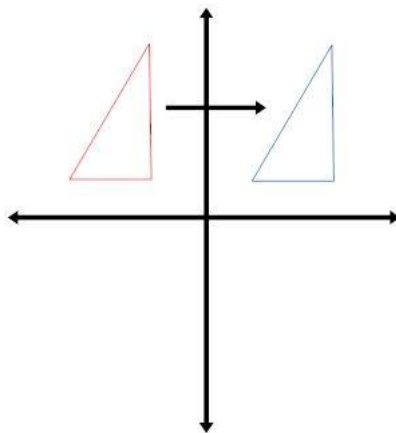
Reflection



Translations

Real Life Examples:

Does NOT change shape or size.



Pre-image/ image:

• Preimage

- The figure before you move it.
- Usually named with letters
- Example: A, B, AB...

• Image

- The figure after it has been moved
- Usually named with a letter and a prime symbol (apostrophe)
- Example: A', B', A'B'...

Examples:

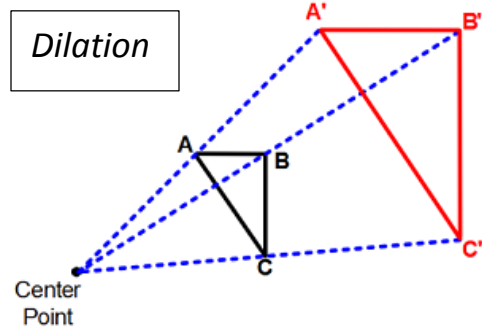
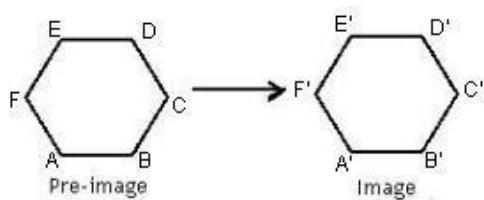


Figure 2



Translation

