



TOPIC/OBJECTIVE:

62a: Transformations

NAME:

CONTENT/CLASS:

Geometry

CLASS/PERIOD:

4

DATE:

9/25

ESSENTIAL QUESTION:

What are some vocab words I will need for this unit?

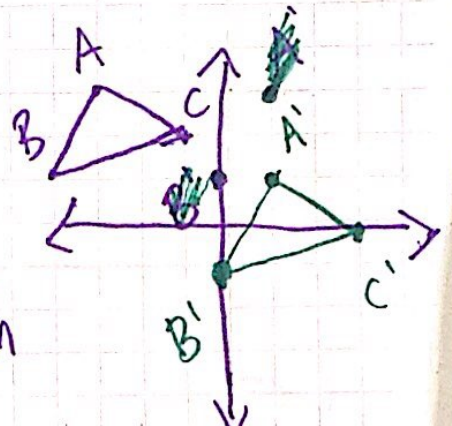
QUESTIONS:

NOTES:

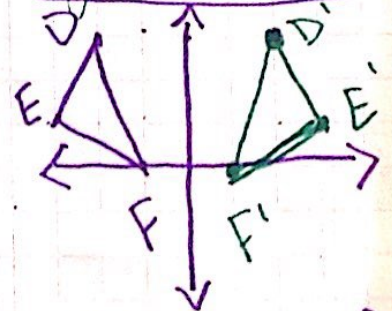
Transformation: a general term for 4 specific ways to move a point, line or shape.

Translation: a transformation where the size, shape and orientation of the figure stays the same while moving or sliding the figure.

Reflection: a transformation where the size and shape ~~stay~~ stay the same as the figure "flips" across a line of reflection. "Mirror image"



Eg: Translate $\triangle ABC$ 4 units right and 2 units down to get $\triangle A'B'C'$



Eg: Reflect $\triangle DEF$ across the y-axis to get $\triangle D'E'F'$

SUMMARY:



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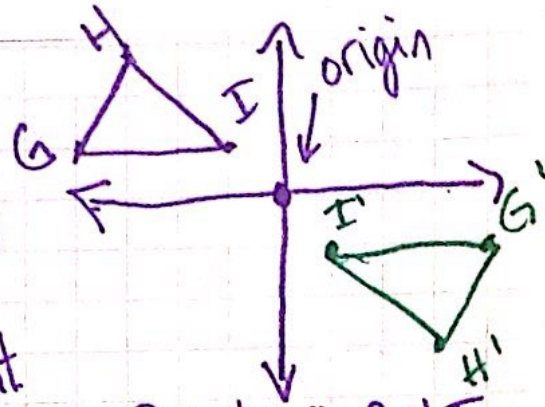
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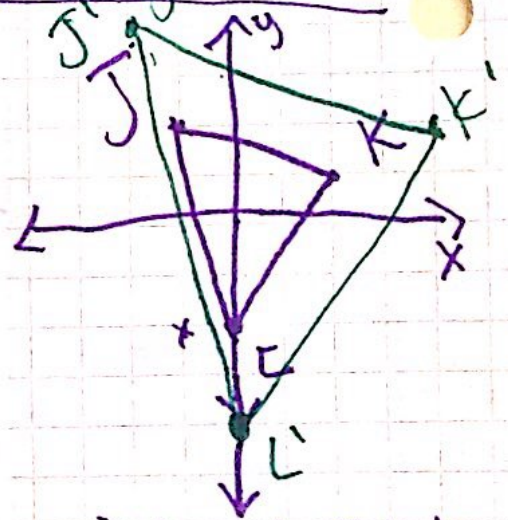
Rotation: a transformation where the size + shape stay the same as a figure rotates around a fixed point.



Eg: Rotate $\triangle GHI$ 180° clockwise around the origin to get $\triangle G'H'I'$

~~Dilate~~

Dilation: a transformation which makes a figure similar to the original by shrinking or stretching.



Eg: Dilate $\triangle JKL$ by a scale factor of 2

SUMMARY: