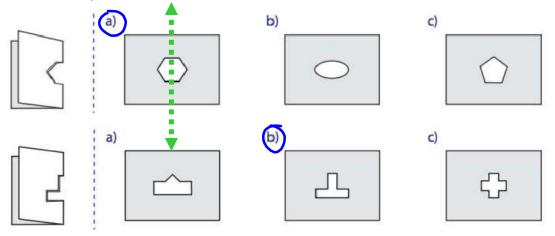
Geometry CC – Mr. Valentino	Name:	
Unit 4 Lesson 1: Symmetry	Date:	Period:
AIM: Identify and differentiate the three of	different types of symmetry: line,	point, and rotational.

Do Now: You will be given a shape with a pattern on it. Find a classmate that is your match.

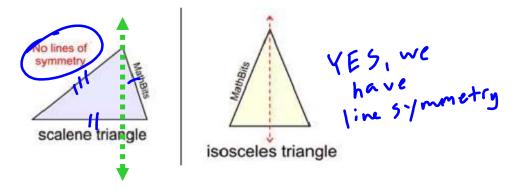
It's time to discuss an important part of geometry...symmetry!

## Line Symmetry

A line of symmetry is a line that divides a figure into  $\frac{1}{1000}$  mirror images. The figure is mapped onto  $\frac{1}{1000}$  by a reflection in this line.

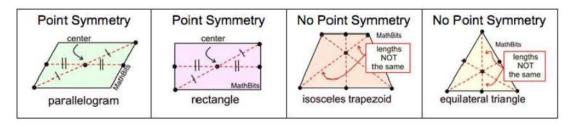


Let's discuss some lines of symmetry on geometric figures:



## Point Symmetry

A figure has point symmetry sage when it looks the same \_\_\_\_\_\_\_ as it does rightside-up (180 degree rotation).



## **Rotational Symmetry**

A figure has rotational symmetry if when rotating (turning or spinning) the figure around a center point by less than 360°, the figure appears \_\_\_\_\_ KSAML OC. UNCHANGED

The number of positions in which the rotated object appears unchanged is called the order of the symmetry.

Let's examine the point and rotational symmetry of some geometric figures:

-=120

