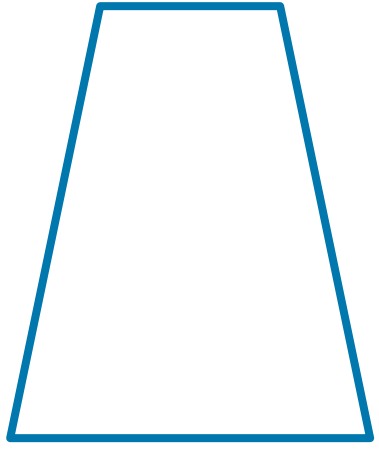
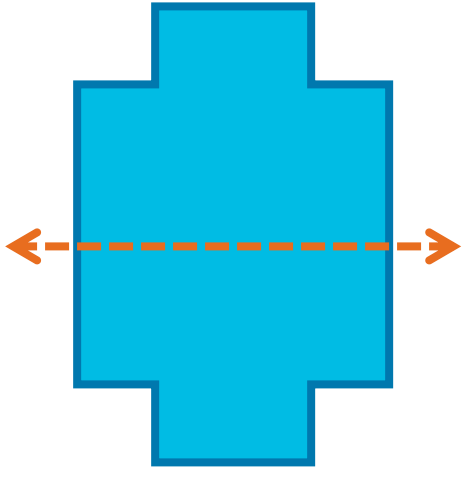
How many lines of symmetry does this polygon have?



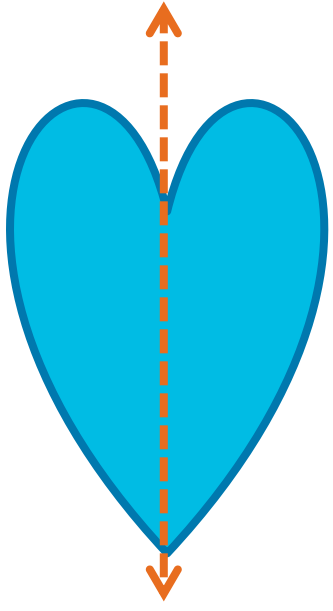
In this lesson you will learn how to identify line symmetry in irregular polygons by folding the figure into matching parts.

# Let's Review

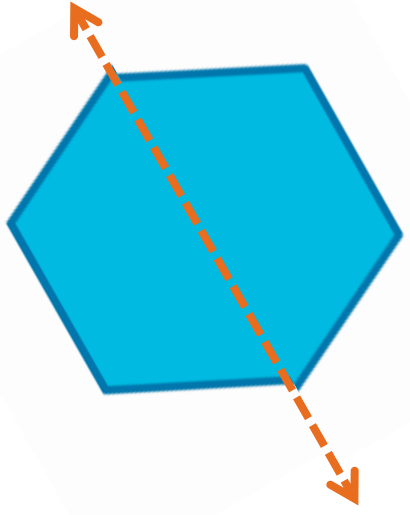
## Line Symmetry



Horizontal



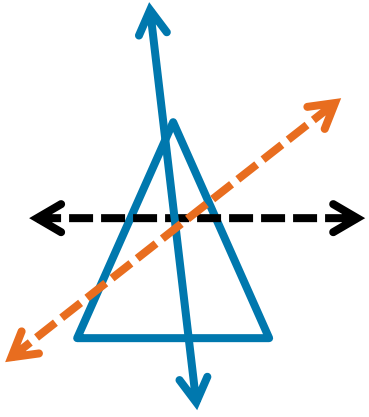
Vertical



Diagonal

# A Common Misunderstanding

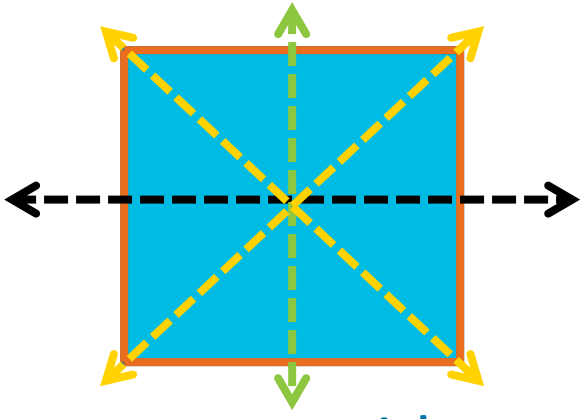
## Line Symmetry



* Remember when we fold on the line of symmetry we need to have two equal parts.

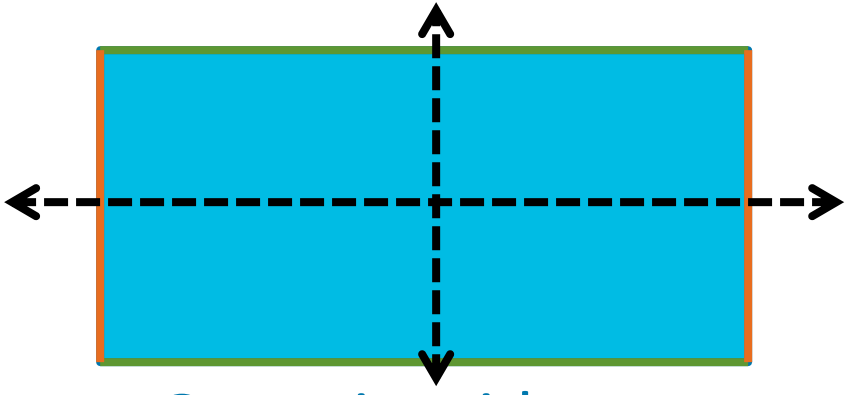
# A Common Misunderstanding

## Regular



4 congruent sides means
4 lines of symmetry

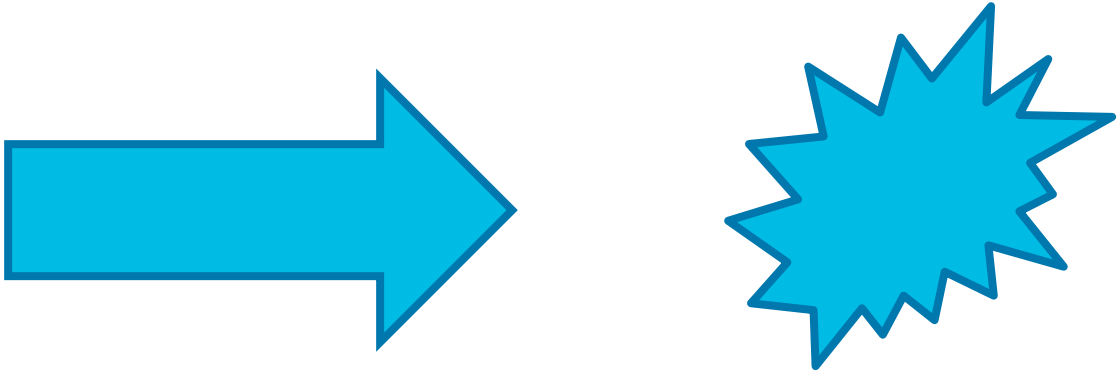
## Irregular



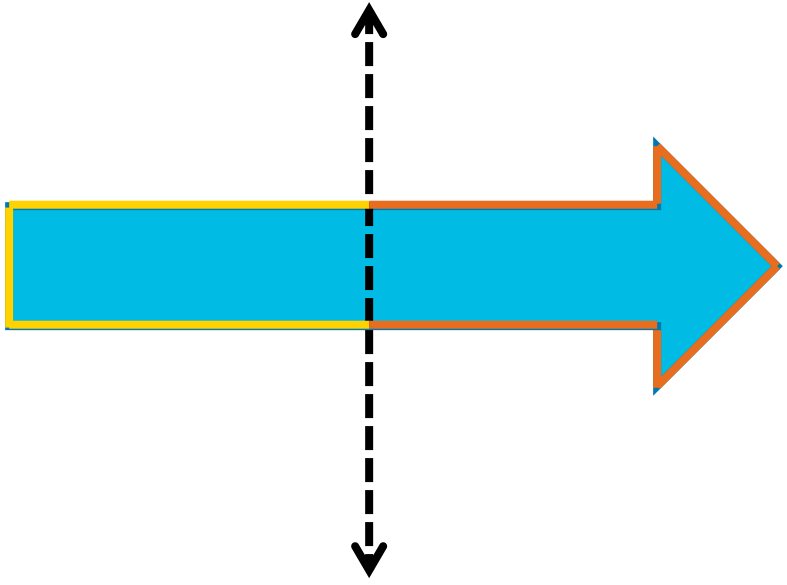
Opposite sides are congruent – will not have 4 lines of symmetry

Core Lesson

# Irregular Polygon

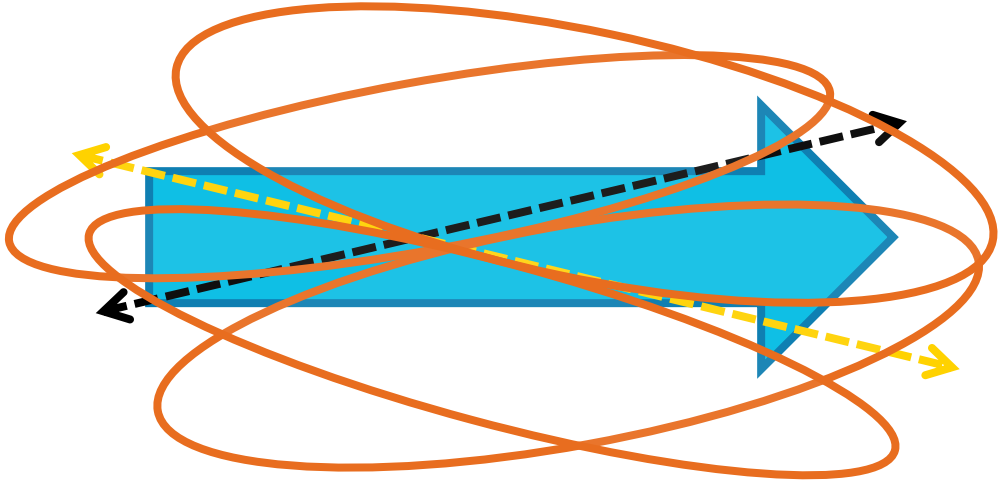


Core Lesson



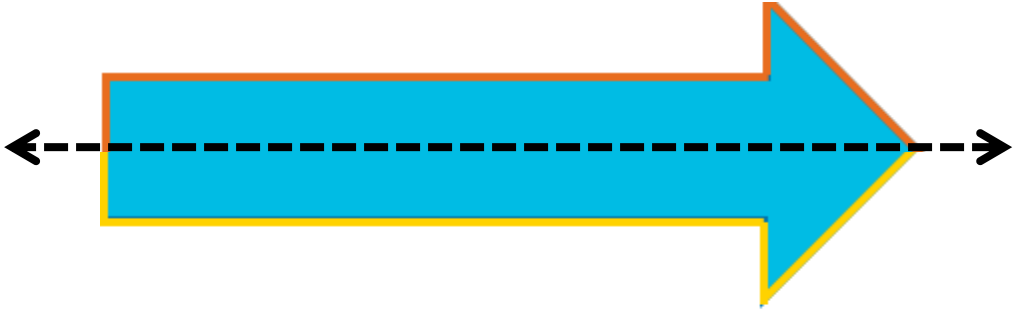
The arrow does not have a vertical line of symmetry.

Core Lesson



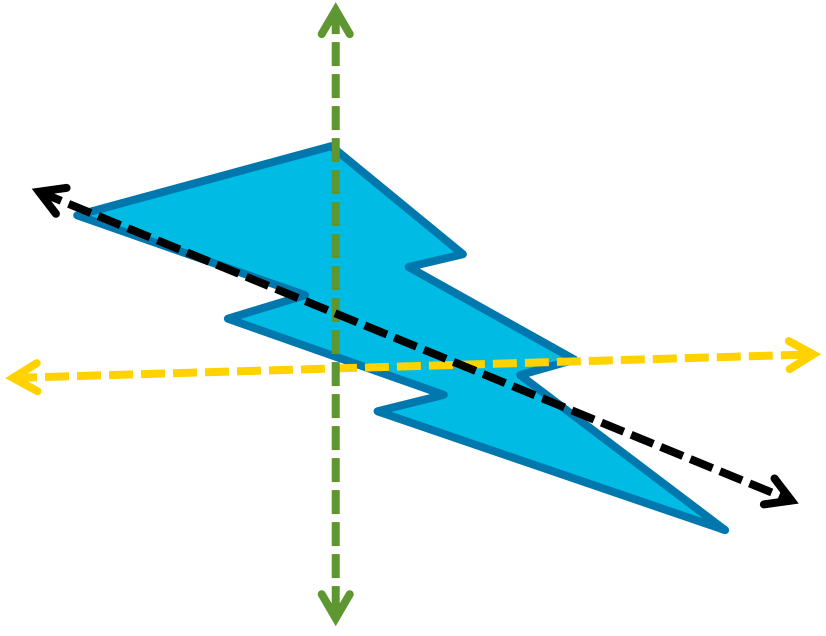
The arrow does not have a diagonal line of symmetry.

Core Lesson



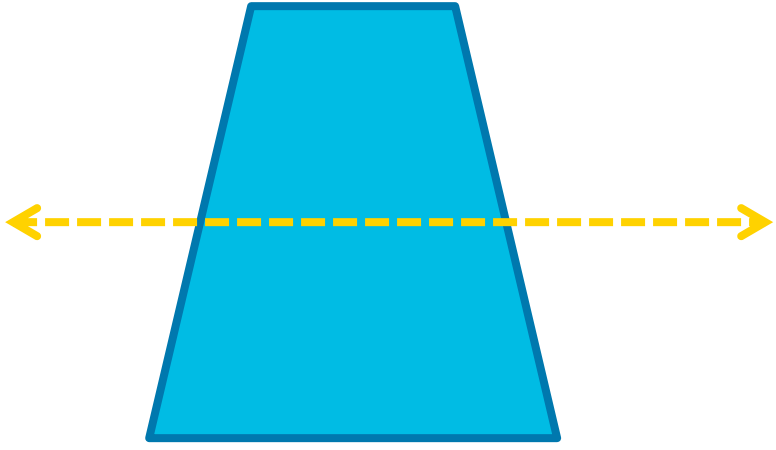
The arrow has 1 horizontal line of symmetry.

Core Lesson



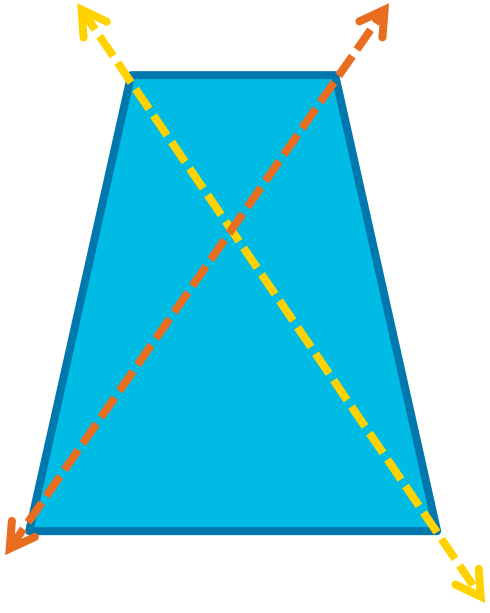
This lightning bolt has NO lines of symmetry.

Core Lesson



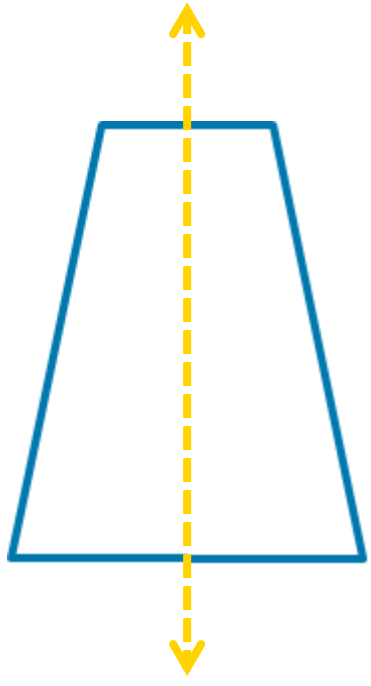
The trapezoid does not have a horizontal line of symmetry.

Core Lesson



The trapezoid does not have a diagonal line of symmetry.

Core Lesson



This trapezoid has 1 vertical line of symmetry.

In this lesson you have learned how to identify line symmetry in irregular polygons by folding the figure into matching parts.