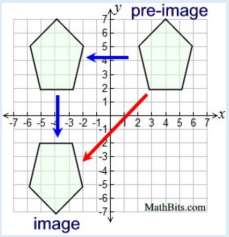
The Common Denominator

A Family Math Newsletter

Math 8 Unit 5: Transformational Geometry



Unit at a Glance

Skills/ Topics:

- Experiment to verify the properties of rotations, reflections, and translations.
- Describe the effect of dilations, translations, rotations, and reflections using coordinates.
- Use a sequence of transformations to describe whether two figures on a coordinate plane are congruent or similar.

Length:

27 Days (45 minutes); 13 Days (90 minutes)

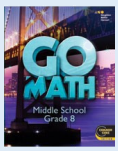
Exploring Mathematics

A Ferris wheel is 4 feet off the ground. It has a diameter of 26 feet and rotates once every 32 seconds. If you begin the ride sitting in a chair that is 6 feet above the ground, how high will you be 10 seconds into the ride? During the first minute, when will you be 20 feet high?

http://www.mathplane.com/gate_4trigonometry/

Resource Toolkit

HMH Resources



Module 9: Transformations and Congruence pg. 275-310
Module 10: Transformations and Similarity pg. 311-334

Discovery ED Techbook Info

Grade 8

Congruence and Similarity, Concept 3.1, 3.2 and 3.3

HW Help Section

Khan Academy

Translations, Reflections, Rotations

Algebraic Representations

Dilations

KHANACADEMY

Go deep enough into anything and you will find mathematics.

-Dean Schlicter