



Dear Eighth Grade Families,

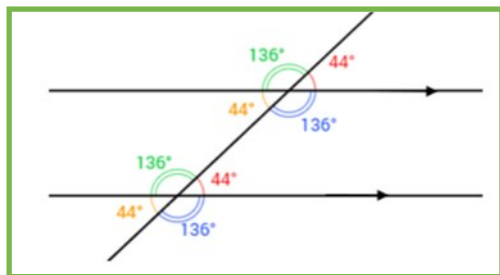
In Unit 10, students will work on the following eighth grade Common Core standards in the Geometry (G) domain.

8.G.5 Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles. *For example, arrange three copies of the same triangle so that the sum of the three angles appears to form a line, and give an argument in terms of transversals why this is so.*

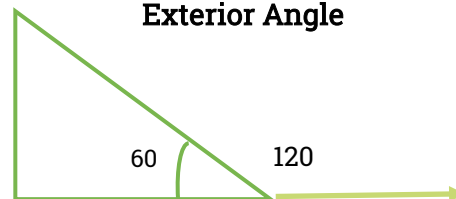
Unit 10 Concepts:

- Triangle Angle Sum
- Parallel Lines & Transversals
- Angle Relationships
- Angles of Polygons

Transversals



Exterior Angle



Ask questions like these to help your child as a productive mathematical thinker:

- Name two different ways you can find a missing angle in a triangle.
- What is the sum of the interior angles of a triangle?
- What have you learned previously that will help you will these lessons?
- How do parallel lines cut by a transversal help you understand parallelograms?
- Why do we subtract from 180 degrees to find a missing angle in both a triangle and a straight angle?

Unit 10 Vocabulary:

- Interior angle
- Exterior angle
- Straight angle
- Complementary angle
- Supplementary angle
- Transversals
- Corresponding angle
- Adjacent angle
- Alternate interior angle
- Alternate exterior angle
- Similar triangles

Need a review? Check out our lesson videos online!

swunmath.com/student-videos

If you don't know the class's special name, ask your child's teacher.

We encourage you to talk with your child daily about what was learned in math class.
Thank you for your support!