

Grade 7

Distance Learning Module 5: Week of April 27th – May 1st

Mathematics Grade 7 Pre-Algebra - Modified from [Unit C - Geometry](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.

Vocabulary: parallel lines, transversal, exterior angle, remote interior angles

Skills: Students will be able to find a missing angle in a triangle or an exterior angle of a triangle. Given parallel lines with a transversal, students will be able to find the measure of missing angles.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: 1) Watch video about parallel lines and their angles. 2) Do enough practice problems to be confident 3) do Khan practice: Angle Relationships with Parallel Lines 4) Watch two triangle videos 5) Do enough triangle practice problems to be confident. 6) Do Khan work on Triangles and Missing angles	Video explanation (you can start at 2:20 and end at 7:19) Practice Problems about Angles in Parallel Lines Answers Angle Relationships with Parallel Lines (Khan Practice) Video that shows the sum of the interior angles of a triangle add up to 180 degrees Explanation and examples of how to find the missing angle	Teacher will check your Khan work

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
	Kuta Practice (#1-6) Optional practice Finding a Missing Angle in a Triangle w/out Algebra (Khan Practice)	
Tuesday: 1) Watch video 2) Do enough practice problems to be confident. 3) Do Khan	Using Algebra with Angles of a Triangle Video Practice Problems Answers	Your teacher will post a google form
Wednesday: 1) Watch video 2) Do enough practice problems to be confident. 3) Do Khan	Video Using Algebra with Parallel Lines (start at 7:20) (this will show two congruent angles) Video Using Algebra with Parallel Line (start at 6:35)(this will show two supplementary angles) Kuta Practice Parallel Lines (#13-16) Equation Practice with Angles (Khan Practice) First you need to find the variable and then substitute that in to find the actual angle	Teacher will check your Khan work
Thursday: Exterior Angle of a triangle without Algebra	Video Exterior Angle of a Triangle Explained Optional: More Exterior \angle of a Triangle Explained Practice Kuta (#1-8)(no algebra needed)	Your teacher will post a google form

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Friday: Exterior Angle of a triangle with Algebra	Video Explanation of how to use Exterior angles and Algebra(the explanations are at the end) Another example - scroll down to "example A" Practice Kuta (#9-18)(algebra needed)	Your teacher will post a google form

Week criteria for success (attach student checklists or rubrics):

- 1) Given two parallel lines, a transversal and one angle measurement you can find the other seven angle measurements (with no algebra)
- 2) Given two parallel lines, a transversal and some angle measurements you can find the other seven angle measurements (with algebra)
- 3) Using the fact that the three angles of a triangle add up to 180 degrees you can find a missing angle (with no algebra)
- 4) Using the fact that the three angles of a triangle add up to 180 degrees you can find the value of the variable AND then each angle.
- 5) You can find missing angles by using the fact that an exterior angle equals the sum of the two remote interior angles. (no algebra)
- 6) You can find a variable and missing angles by using the fact that an exterior angle equals the sum of the two remote interior angles. (with algebra)

Supportive resources and tutorials for the week (plans for re-teaching):

- 1) Look at and use optional material.
- 2) Tell your teacher that you need help.
- 3) More examples of using algebra and 180 degrees in a triangle: video
- 4) More examples of finding angles of parallel lines using Algebra video