

Grade7

Distance Learning Module 2: Week of: Week of April 6 – 10, 2020

Content Area: Math Course Title: Grade 7 Pre-Algebra - Modified from [Unit C - Geometry](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and pi. Describe the two-dimensional figures that result from slicing three-dimensional figures, as in plane sections of right rectangular prisms and right rectangular pyramids.

Vocabulary: net, prism, edge, face, vertex, circle, circumference, diameter, radius, pi

Skills: finding the area of a circle, finding the circumference of a circle, finding the area and circumference of composite shapes that involve circles or parts of circles

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
<p>Monday: You did this last year but it's worth doing again: today you will find the surface area of prisms and pyramids using nets. The key is to organize your work. The video about finding surface area shows a pretty good example of that.</p> <p>Do enough of the worksheet to feel confident before doing the Khan problems.</p>	<p>Formulas for area you might need</p> <p>Video: How to describe 3D shapes - jump to 1:00 minutes in</p> <p>Review of Talking about 3D Shapes</p> <p>Video Finding Surface Area of Prism</p> <p>Optional Khan Video on Surface Area</p> <p>Surface Area Worksheet w/ Answers</p> <p>Surface Area (Khan Work)</p>	<p>Khan work will be viewed by teacher</p>

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
<p>Tuesday: Learn circle vocabulary (circle, diameter, radius, circumference)</p> <p>Discover the relationship between circumference and circle</p>	<p>Definitions of circle, diameter, circumference</p> <p>Experiment about Diameter vs Circumference</p> <p>What is a Circle, pi (video)</p> <p>Cat Video about Diameter (optional and silly)</p>	<p>Complete the google form in your google classroom (NOT HERE!!) form</p>
<p>Wednesday: Use the formula $C = \pi d$ to solve problems (watch the video first to help you). Do enough of the problems in the worksheets to feel confident before doing the Khan work. You should be able to find circumference given r or d AND you should be able to find r or d if you are given the circumference.</p>	<p>Video How to Use Circum. Formula</p> <p>Worksheet w/ Answers for Circumference</p> <p>two good examples at top left of page of finding C given the radius or diameter</p> <p>Find the radius (or diameter) if the Circumference is Given (worksheet w/ answers)</p> <p>Radius, Diameter, Circumference (Khan work)</p> <p>Circumference of a Circle (Khan work)</p>	<p>Khan work will be viewed by teacher</p>
<p>Thursday: Use the formula $A = \pi r^2$ to solve problems (watch a video first to help you). Try a few of the Kuta problems (don't print it - just do it on notebook paper). Once you are ready, do the Khan Practice problems.</p>	<p>Video about how to use area of a circle formula</p> <p>How the area of a circle formula came to be (you might need to watch this more than once to understand it - super interesting!)</p> <p>Examples of how to use the area formula</p> <p>Kuta worksheet for area of a circle</p> <p>Area of a Circle Practice problems (Khan work)</p>	<p>Khan work will be viewed by teacher</p>

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
<p>Friday:</p> <p>School is closed for Good Friday. We have provided some optional activities for interested students. There is no obligation to complete any of these activities and students will not be behind their classmates if they do not complete them.</p> <p>Do mixed application problems using the area of a circle or circumference of a circle.</p>	<p>T</p> <p>Kuta worksheet with area and circumference of a circle(optional)</p> <p>Area and Circum. Worksheet (optional)</p> <p>Quizz word problems - sign in with your google account</p>	<p>OPTIONAL Area and Circumference Check In (google form)</p>

Week criteria for success

- 1) I can find the surface area of a prism or pyramid using nets.
- 2) I can identify the diameter and the radius of a circle.
- 3) Given the diameter or radius of a circle I can find the area and the circumference
- 4) I know that pi comes from the fact that the diameter of a circle x pi is always the circumference
- 5) I can use the circumference and the area formulas to solve real world problems
- 6) I can find the circumference of a circle given the radius of the circle.

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

- 1) Use Khan videos associated with the practice problems.
- 2) Do the optional videos and or problems
- 3) Let your classroom teacher know you need help.