Math Makes Sense 9

Self Paced Study Guide
Exam Target Date: _____

Chapter: 8   Circle Geometry

Key Words: page 383. Either now or as you work through this chapter, define, illustrate or give an example of each word or idea.

Tangent   Point of tangency Chord   Arc   Minor Arc   Major Arc
Central angle   Inscribed angle   Subtended   Inscribed polygon
Supplementary angles

Study Guide Pg. 417 – Study – this is your first look at what is important in this chapter. You MUST know this vocabulary and these properties!

Pre Test: Take the Practice Test on pg. 421, and record your score - _____%

Topic: 1.1   Properties of Tangents to a Circle, p.384.

Read and study pages: 384-387

Give special attention to:

1. **What is a tangent? _____**
2. **What is the "point of tangency"? _____**
_____
3. **How many degrees is the angle formed by a tangent and a radius at the**
point of tangency? It is ALWAYS _____° (The Tangent-Radius property)

NB: When working through the assigned exercises and activities, you should check ALL your answers using the answer guide at the back of the book. Do **NOT** proceed to the next set of questions until you have corrected the section you are working on. I.e.: Do not wait to correct your answers till you have finished the whole page of assigned questions. Go back and **re-read** the notes and examples till you understand the concept when you are stuck or not getting something.

Basic Assignment: Check Qs 3-6, Apply Qs 7-14

Assessment Focus and Take it Further: Class discussion Q's 15 and 16.

Q's 17 to 22 – choose 4 to complete. They must be non-consecutive.

Challenge Assignment: NA

Topic 8.2   Properties of Chords in a Circle, p. 392

Read and study pages: 392-396

Define: Radius: _____

Diameter: _____

Chord: _____

Perpendicular: _____

In your own words, state:

- **Perpendicular to Chord Property #1:**

  _____

- **Perpendicular to Chord Property #2:**

  _____

- **Perpendicular to Chord Property #3:**

  _____

Give special attention to: Examples 1, 2, & 3, and Discuss the Ideas, pg. 396.

Basic Assignment: PRACTICE Qs 3 to 11. Then, 12, 14, 16, 18.

Challenge Assignment: 19

Mid Unit Review
Mid Unit Review
Basic Assignment: Do ALL Qs.

Topic 8.3   Properties of Angles (not to be confused with "Angels") in a Circle

Read and study pages: 404 to 409

Give special attention to: Examples 1, 2, & 3, and Discuss the Ideas, pg. 409.

Basic Assignment: PRACTICE Qs 3 to 9, 11, 12, 15

Challenge Assignment: 10, 14

Study Guide Pg. 417 – Review again

Chapter Review, pages **418 - 420.**

Do #'s 1 to 10.

Post Test: Take the Practice Test on pg. 421, and record your score - _____% - did you get a better mark than before?