Google Docs Circle Project

Geometry

Mrs. Hennessy

1st block \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4th block \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

You will work with a partner from another Geometry class to create questions to help review for the test at the end of the chapter. You will be using Google docs presentation to work with your partner and “Share” the project. Your presentation must have the following:

**Section 1-Vocabulary, Area, and Circumference**

SLIDE 1 (Student in 1st block): Vocabulary

Draw a picture that encompasses the following vocabulary words: center, radius, chord, diameter, secant, tangent, point of tangency. Create 7 questions about the vocabulary words.

SLIDE 2 (Student in 1st block): Answer key to questions on slide 1 (7points)

SLIDE 3 (Student in 4th block): Vocabulary

Draw a picture that encompasses the following vocabulary words: center, radius, chord, diameter, secant, tangent, point of tangency. Create 7 questions about the vocabulary words.

SLIDE 4 (Student in 4th block): Answer key to questions on slide 3 (7 points)

SLIDE 5 (Student in 1st block): Draw a circle so students are able to:

Find the approximate area and circumference given a radius.

Find the approximate area and circumference given a diameter.

Find the approximate area given the circumference.

Find the approximate circumference given the area.

SLIDE 6 (Student in 1st block): Answer key to questions on slide 5 (4 points)

SLIDE 7 (Student in 4th block): Draw a circle so students are able to:

Find the approximate area and circumference given a radius.

Find the approximate area and circumference given a diameter.

Find the approximate area given the circumference.

Find the approximate circumference given the area.

SLIDE 8 (Student in 4th block): Answer key to questions on slide 7 (4 points)

SLIDE 9 (Student in 1st block): Draw a circle so students are able to:

Find the exact area and circumference given a radius.

Find the exact area and circumference given a diameter.

Find the exact area given the circumference.

Find the exact circumference given the area.

SLIDE 10 (Student in 1st block): Answer key to questions on slide 9 (4 points)

SLIDE 11 (Student in 4th block): Draw a circle so students are able to:

Find the exact area and circumference given a radius.

Find the exact area and circumference given a diameter.

Find the exact area given the circumference.

Find the exact circumference given the area.

SLIDE 12 (Student in 4th block): Answer key to questions on slide 11 (4 points)

**Section 2-Tangents**

SLIDE 13 (Student in 1st block): Draw a circle with tangents and missing side measures. You must use BOTH tangent theorems to find the missing measures in your picture.

SLIDE 14 (Student in 1st block): Answer key to questions on slide 13 (2 points)

SLIDE 15 (Student in 4th block): Draw a circle with tangents and missing side measures. You must use BOTH tangent theorems to find the missing measures in your picture.

SLIDE 16 (Student in 4th block): Answer key to questions on slide 15 (2 points)

**Section 3-Acrs and Chords**

SLIDE 17 (Student in 1st block): Draw a circle with chords and missing side and arc measures. You must use all three chords theorems to find the missing measures in your picture.

SLIDE 18 (Student in 1st block): Answer key to slide 17 (3 points)

SLIDE 19 (Student in 4th block): Draw a circle with chords and missing side and arc measures. You must use all three chords theorems to find the missing measures in your picture.

SLIDE 20 (Student in 4th block): Answer key to slide 19 (3 points)

**Section 4-Area of a sector and arc lengths**

SLIDE 21 (Student in 1st block): Draw a circle so students are able to find the exact and approximate area of a sector and find the exact and approximate arc length.

SLIDE 22 (Student in 1st block): Answer key to slide 21 (4 points)

SLIDE 23 (Student in 4th block): Draw a circle so students are able to find the exact and approximate area of a sector and find the exact and approximate arc length.

SLIDE 24 (Student in 4th block): Answer key to slide 23 (4 points)

**Section 5: Special Angles in a circle**

SLIDE 25 (Student in 1st block): Draw a circle that has three missing angle measures. You must use all three angle theorems to find the missing angles in your circle.

SLIDE 26 (Student in 1st block): Answer key to slide 25 (3 points)

SLIDE 27 (Student in 4th block): Draw a circle that has three missing angle measures. You must use all three angle theorems to find the missing angles in your circle.

SLIDE 28 (Student in 4th block): Answer key to slide 27 (3 points)

**Section 6: Special Segments in a circle**

SLIDE 29 (Student in 1st block): Draw a circle that has at least three missing segment measures. You must use all three segment theorems to find the missing segment measures in your circle.

SLIDE 30 (Student in 1st block): Answer key to slide 29 (3 points)

SLIDE 31 (Student in 4th block): Draw a circle that has at least three missing segment measures. You must use all three segment theorems to find the missing segment measures in your circle.

SLIDE 32 (Student in 4th block): Answer key to slide 31 (3 points)

**Section 7: Picture (See Mrs. Hennessy’s example in school space)**

SLIDE 33 (Student in 1st block): Find a picture of an object that is a circle. Your picture may be from the internet or one that you have taken and uploaded. Create a circle problem finding a missing side and angle based on your picture.

SLIDE 34 (Student in 1st block): Answer key to slide 33 (10 points)

SLIDE 35 (Student in 4th block): Find a picture of an object that is a circle. Your picture may be from the internet or one that you have taken and uploaded. Create a circle problem finding a missing side and angle based on your picture.

SLIDE 36 (Student in 4th block): Answer key to slide 35 (10 points)

From the circles you have drawn above, you must use the following algebraic methods at **least once** in your problems.

* 45-45-90 triangle theorems (5 points)
* 30-60-90 triangle theorems (5 points)
* Trigonometry (5 points)
* Quadratic Formula (5 points)