Sunflower Math Challenge

Name _____
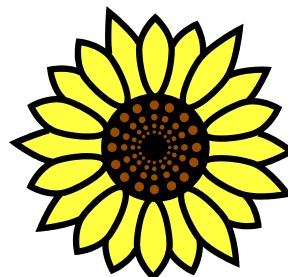
Part 1: Find a sunflower in the garden to use for this lesson.

Part 2: Answer these questions based on your sunflower.

How many leaves are on your sunflower? _____

How many petals are on your sunflower? _____

Take a guess: How many seeds are on your sunflower? _____

Part 3: Use a measuring tape to determine the following information. Record your data in the first row in the chart. Share data with two other groups and use their data to complete the last two rows of the chart.

Sunflower Location	Plant Height	Diameter (cm) of Seed Area	Circumference (cm) of Seed Area	Area (cm) of Seed Area
	_____ cm _____ m			
	_____ cm _____ m			
	_____ cm _____ m			

* Measure the diameter at the widest point of the inside portion of the flower where the seeds are located.

Part 4: Answer these questions based on all of your data.

Which sunflower was the tallest? _____

Which sunflower had the largest flower area? _____

How does the height of the plant relate to the area of the flower? Explain.

Challenge: Cut a 1 centimeter square out of the middle of an index card. Hold the square over the flower and count the number of seeds you can see in the 1 centimeter square.   Show your work!

Number of seeds in 1 cm^2 = _____

Estimated number of seeds on entire flower = _____