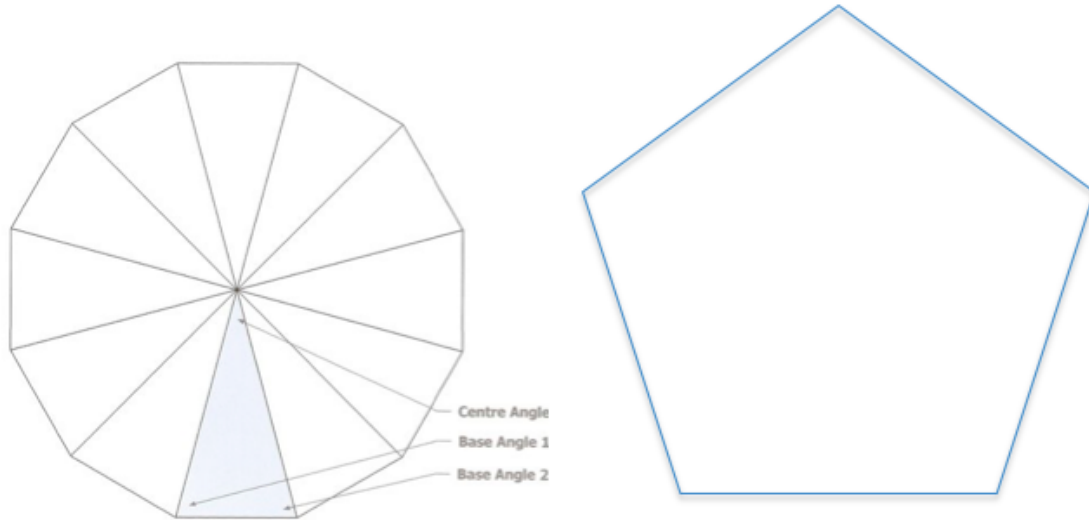


Task 1) Given that your pizzas are made up of triangular slices, your boss must have confidence in your math ability. Given the tools provided (paper, pens, scissors, protractor), create a triangle pizza slice and confirm the sum of the angles.

Sum of angles in pizza slice (triangle): _____

Since most pizzas parlors don't keep protractors lying around, how might you do this without a protractor?

2) Task 2: Your boss wants to sell each pizza based on the measure of the interior angles. He charges \$0.05 per degree. Together, let's figure out how much would a 5-sided pizza would cost.



1) draw in slices

2) Goal = calculate interior angles
Can we calculate any any other angles?
(Center or Base angles?)

3) Center Angle =

4) Base Angle =

5) Interior Angle = $2(\text{Base Angles}) =$

6) Price per slice =

Task 3: Using the technique in task 2, fill in the following price sheet for your boss

Price Sheet

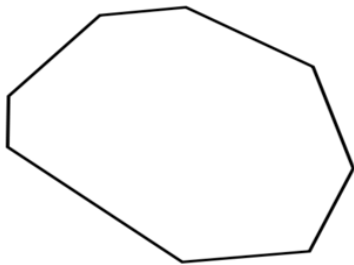
# of Slices/Sides	Measure of Interior Angle ($^{\circ}$)	Cost of Pizza (\$)
4		
5		
6		
7		
20		
n		

Food for Thought:

1) If your boss wanted to change his pricing system to be based on the sum of the interior angles, what would the new formula be for the sum of the interior angles of the n-sided pizza??

So the **Sum of the Interior angles of an n-sided POLYGON** is : _____

2) If he decided to use a cost based on the sum of interior angles, would it matter if the pizza was a not a regular polygon? Why or why not?



Congratulations! You have completed all your tasks, and you are now ready to begin your j making pizzas!