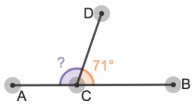
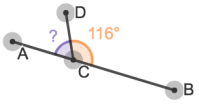
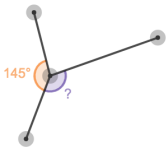
Name:_____

Date:_____

Period: _____

Estimation Tasks

Use the diagram to strategically estimate the angle marked with a question mark (?).

	Too Low	Too High	Your Estimate	Measurement
	89 90 80 70	120 125 175 169	81 100 109 110	109
	20 40 12	100 101 180	70 77 78 71	76
	10 30 40 50	87 100 112 82	64 56 59	
	100 85 99 90	180 120 150 200	125 55 145 140 148 73	

Think about, then write down, everything you know about these estimations.

What did you wonder?

Angle Addition Postulate:

Task 1:

Go to **bit.ly/aapintro1** and explore what is happening.

What is the sum of the angles?

What happens to the sum of the angles when you move the points? Describe.

Task 2:

Go to **bit.ly/aapintro2** and explore what is happening.

Create a new angle that is the sum of the two angles. What is its measure?

What happens to the sum of the angles when you move the points? Describe.

Task 3:

Create four sample problems on the same screen within desmos.com/geometry with the following properties:

1. an angle of 94°, then cut the angle into two sections, with one of the angles measuring 38°
2. an angle cut into two sections, with one angle measuring 76° and the other measuring 67°
3. an angle of 125°, then cut into two sections, with one of them labeled as x+12
4. an angle of 19° and a second angle that is greater than 90°

Trade with your table group and determine their missing angles.