

Name: _____

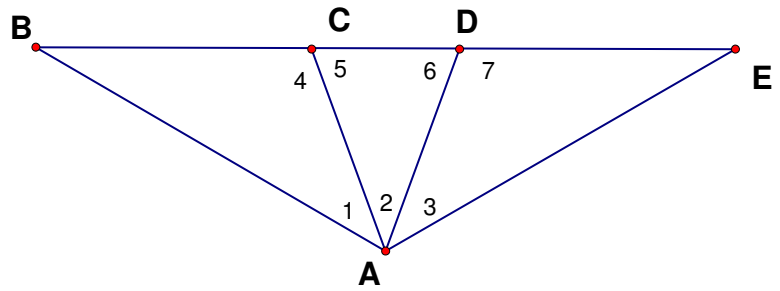
Date Turned in: _____

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Geometry Problem Solving #4
Quarter 2

1. Jack and Jill collect ladybugs. Jack collects only the ones with two spots, and Jill collects only the ones with 7 spots. Jack has 5 more ladybugs than Jill. The total number of spots found on all ladybugs is 100. How many ladybugs do Jack and Jill have in their combined collection?

2. Given: $\overline{AB} \cong \overline{AE}$; $\angle 1 \cong \angle 2 \cong \angle 3$
Prove: $\overline{AC} \cong \overline{AD}$



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3. What is the sum of the first 200 multiples of 3? (Consider 3 itself as the first multiple)

4. Complete the grid so that every row, column, and 3x3 box contains every digit from 1 to 9 with no repeats. Your explanation **does not** need to include details on how you came up with each individual number. You may write a brief description outlining the strategies you used to determine the missing values.

8		6	9	3	7			4
				2			7	
		7	5					
	2	9	6	5				
	5	4		8		7	3	
				7	1	2	5	
					5	1		
	6			4				
5			3	1	6	4		7