Talking Points

TOPIC: talking about parallel lines, angles, & proof — what does your group think?

		A / D / U
1.	Whenever a transversal crosses two parallel lines, their same-side interior angles will always be congruent.	
2.	Sometimes in Geometry, the diagram gives you information that is not contained in the written instructions.	
3.	Sometimes in Geometry, the diagram is unhelpful to the proof.	
4.	Dr. S would give us 100% for this round of Talking Points because we are actually doing three complete rounds on every single Talking Point.	
5.	When a diagram is unhelpful, you can never add a parallel or perpendicular line by construction to make the diagram more helpful.	
6.	When you are trying to prove that two lines are parallel, you should go ahead and mark the lines as parallel on your diagram before you have finished your proof.	
7.	It's OK not to be precise while doing a two-column proof.	
8.	It is OK to construct an auxiliary line on the diagram for a proof.	
9.	If you have a transversal-across-two-lines situation and if the same-side interior angles are supplementary, then the two lines are parallel.	
10.	We now have five distinct ways of proving that two lines are parallel.	
11.	I can name all five methods.	
12.	I should be able to name all five methods.	
13.	There is at least a 99.999% chance that the ability to name all five methods correctly is going to be on the test this week.	
14.	The five methods are "corresponding angles," "alternate interior angles," "same-side-interior supplementary angles," "both lines perpendicular to a third line," and "Go, Giants."	
15.	I know what the missing fifth method is.	
16.	I am going to look up the missing fifth method as soon as this set of Talking Points is over.	
17.	I am going to be able to name all five methods by heart by tomorrow.	
18.	It's kind of cool that we know five methods of proving two lines parallel.	
19.	"By construction" is an acceptable way to justify a construction step in a proof.	
20.	Sometimes the best auxiliary line to construct is a perpendicular line.	

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