me: ˌ	Date:	
	Engineering Design Quiz	
1.	- 0 0/ 0 P 0	
	a. information about an existing product is gathered by an engineerb. an engineering design team comes up with ideas for a new product	
2.		~
۷.	design loop?	Б
	a. Identify the Need	
	b. Research the Problem	
	c. Develop Possible Solutions	
3.	Engineers must understand the difference between requirements and constraints. Let's say a team engineers is asked to design a pair of kids' tennis shoes for less than \$20. They determine that the c way to manufacture shoes for this price is to use recycled materials. What is the team's constraint? a. The shoes must be designed for kids	only
	b. The shoes must be made out of recycled materials	
	c. The shoes must cost less than \$20 to manufacture	
4.	During a brainstorming session we want to focus more on: a. quantity of ideas rather than quality	
	b. quality of ideas rather than quantity	
5.	Which step of the engineering design loop distinguishes an engineer from a technician? a. Construct a Prototype	
	b. Test and Evaluate a Prototype	
	c. Redesign	
6.	Although the terms "model" and "prototype" are often used interchangeably, they are not the same thing. A is used to test different aspects of a product before the design is finalized. A used to demonstrate or explain how a product will look or function. a. model, prototype b. prototype, model	
7.	When following the engineering design loop, the different stages can occur in which direction? a. clockwise	
	b. counter-clockwise	
	c. both clockwise and counter-clockwise	
	d. in any direction, including shortcuts	
8.	The engineering design process is iterative. This allows engineers to a. become proficient at different engineering software applications	

b. a very limited number of possible correct solutions

b. find the most optimal solution to a design problem

c. Incorporate both math and science concepts into a design problem 9. When finding the solution to an engineering design problem, there is/are usually...

c. many possible correct solutions