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## **Pre/Post-Quiz**

- 1. Which polygon(s) create the strongest structure? a) square b) hexagon e) trapezoid c) circle d) triangle
- 2. What are tension forces?
  - a) forces transmitted when an object is pulled equally from each end
  - b) forces transmitted when an object is pulled more strongly from one end of an object than another
  - c) forces transmitted from pulling from only one end of an object
- 3. What are normal forces?
  - a) the component of the force parallel to the surface of contact (plane)
  - b) the component of the force at a 45 degree angle to the surface of contact (plane)
  - c) the component of the force perpendicular to the surface of contact (plane)
- 4. Explain what a flexure test does.
- 5. Describe how you can complete a flexure test in our classroom.
- 6. Why would you use a scatter plot to graph the results of your testing data?
- 7. What do you think is the most important step in the engineering design process and explain your answer.
- 8. Using your knowledge of polygons, what polygon will you incorporate into your sled stick design? Why?