Understanding the World's Great Structures NAME: _____
Chapter 2 Quiz

1. Engineering mechanics is the branch of physical sciences that deals with the effects of a force acting on a _____.

2. Force always has:
A. Tension and Strength
B. Direction and Speed
C. Magnitude and Direction
D. Direction and Tension

3. What is the difference between a live load and a dead load?

4. _____ is the measure of the intensity of internal forces (usually expressed as pounds per square inch or Newtons per square meter).

5. The principle of _____ is, without question, the most important concept in all of engineering mechanics.

6. Newton's first law of motion states:

7. To practice what we learned about applying the principle of equilibrium, let's return to the Chouteau Bridge model, this time with a live load of 5 pounds as shown below. The bridge itself weighs 2 pounds. What are the reactions at the supports?*