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1. What is the ratio between the change in dimension to its original dimension of the substance?

- A) Stress
C) Poisson's ratio
- B) Strain (Correct)**
D) Factor of safety

A) Tensile stress/Tensile strain

B) Compressive stress/Compressive strain

C) Volumetric stress/Volumetric strain (Correct)

D) Shear stress/Shear strain

2. What is the unit of strain?

- A) Kg/cm^2
C) Metre
- B) Newton/metre^2
D) No unit (Correct)

7. Which law states that within elastic limit stress is directly proportional to strain?

- A) Newtons law
C) Joules law

- B) Hooks law (Correct)**
D) Charles law

3. What is the ratio of change in length to original length?

- A) Linear strain**
C) Volumetric strain
- B) Lateral strain (Incorrect)
D) Poisson's ratio

8. What is the term used for maximum stress attained by a material before rupture?

- A) Tensile stress
C) Working stress

- B) Compressive stress
D) Ultimate stress (Correct)

4. Which one is the ratio of stress?

- A) Load and area (Correct)**
C) Load and diameter
- B) Load and direction
D) Load and time

9. What is the ratio of ultimate load to area of original cross section?

- A) Factor of safety (Incorrect)
C) Ultimate stress
- B) Yield point
D) Youngs modulus

5. Which force acts on rivets?

- A) Tensile force
C) Shear force (Correct)
- B) Compressive force
D) Bending force

10. What is the ratio between stress and strain?

- A) Yield point
C) Youngs Modulus (Correct)
- B) Factor of safety
D) Poisson's ratio

6. What is the formula for bulk modulus?