**Strength of Materials Worksheet Answers**

Indicate the definition for each vocabulary term by writing its letter in the answer box.

|  |  |
| --- | --- |
|  | **Definition** |
| **A** | The amount of compressive stress that a  material can resist before failing. |
| **B** | The elongation or contraction of a material per  unit length of the material. |
| **C** | Rock that contains a high concentration of iron. |
| **D** | Iron that is refined to contain virtually no  impurities. |
| **E** | A concrete member with steel embedded inside  it to resist tensile forces. |
| **F** | The amount of tensile stress that a material can  resist before failing. |
| **G** | A combination of cement and aggregate into  one solid mass. |
| **H** | Indicates the stiffness of a material. |
| **I** | The ability of a material to be subjected to large strains before it ruptures or fails. |
| **J** | Applied load divided by the material area it is  acting on |
| **K** | The ability of a material to show little or no  yielding before failure. |
| **L** | A powder made of a variety of materials that  hardens when mixed with water. |

|  |  |
| --- | --- |
| **Vocabulary Term** | **Answer** |
| Tensile strength | **F** |
| Ductile | **I** |
| Strain | **B** |
| Modulus of elasticity | **H** |
| Compressive strength | **A** |
| Brittle | **K** |
| Stress | **J** |
| Steel | **D** |
| Cement | **L** |
| Iron ore | **C** |
| Concrete | **G** |
| Reinforced concrete | **E** |