**Strength of Materials Worksheet Answers**

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

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|  |  **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 insideit 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. |

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|  **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** |