|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Group | **Copper** | **Steel**  **Brass** | **Iron** | **Aluminum** | **Steel** | **Lead**  **In plastic Bag** | **Glass** | **Plastic** | **Wood** | **Rubber** | **Cork** | **Ping Pong Ball** |
| 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 |  |  |  |  |  |  |  |  |  |  |  |  |
| Average |  |  |  |  |  |  |  |  |  |  |  |  |

**MASS** of Object in **grams**

**Class Data Table- Density of 12 Objects**

**Volume** of Object in **cm3**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Group** | **Copper** |  | **Iron** | **Aluminum** | **Steel** | **Lead**  *In plastic Bag* | **Glass** | **Plastic** | **Wood** | **Rubber** | **Cork** | **Ping Pong Ball** |
| 1 | **58.6 g** | **73.7** | **62.2** | **17.5** | **49.7** | **0.7** | **14.2** | **9.1** | **4.5** | **9.2** | **5.5** | **2.4** |
| 2 | **72.5 g** | **67.5** | **62.1** | **21.8** | **49.2** | **29.1** | **14.1** | **9.2** | **4.4** | **9.1** | **5.3** | **2.4** |
| 3 | **72.4** | **67.7** | **62.3** | **21.9** | **49.0** | **29.1** | **14.2** | **9.2** | **4.8** | **9.5** | **4.4** | **2.3** |
| 4 | **72.4** | **67.7** | **62.2** | **21.9** | **48.8** | **29.2** | **14.1** | **9.2** | **3.8** | **9.8** | **5.4** | **2.6** |
| 5 | **71.9** | **67.8** | **62.2** | **21.9** | **48.7** | **\*\*\*** | **14.1** | **8.2** | **3.8** | **9.3** | **5.6** | **2.5** |
| 6 | **71.8** | **66.0** | **62.7** | **21.6** | **49.2** | **30.5** | **14.3** | **9.2** | **3.9** | **9.3** | **5.5** | **2.7** |
| 7 | **72.9** | **67.9** | **62.1** | **21.8** | **49.3** | **28.9** | **13.9** | **9.1** | **4.3** | **9.4** | **5.2** | **2.4** |
| 8 | **72.5** | **67.5** | **62.1** | **21.9** | **49.1** | **29.3** | **14.1** | **9.0** | **4.5** | **9.5** | **4.1** | **2.3** |
| Average | **72.3 g** | **67.6 g** | **62.2 g** | **21.8 g** | **49.1 g** | **29.3 g** | **14.1 g** | **9.1 g** | **4.3 g** | **9.4 g** | **5.4 g** | **2.4 g** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Group** | **Copper** | **Brass** | **Iron** | **Aluminum** | **Steel** | **Lead**  *(Teacher only)* | **Glass** | **Plastic** | **Wood** | **Rubber** | **Cork** | **Ping Pong Ball** |
| 1 |  |  |  |  | **8.6 cm3** | **2.5 cm3** | **8.6 cm3** | **6 cm3** | **6 cm3** | **6 cm3** | **16 cm3** | **30 cm3** |
| 2 | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **6.0 cm3** | **2.5 cm3** | **6.0 cm3** | **6 cm3** | **6 cm3** | **6 cm3** | **16 cm3** | **28 cm3** |
| 3 | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **6.0 cm3** | **2.5 cm3** | **6.0 cm3** | **6 cm3** | **6 cm3** | **6 cm3** | **17** | **54 cm3** |
| 4 | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **6.0 cm3** | **2.5 cm3** | **8.0** | **6 cm3** | **6 cm3** | **5** | **12** | **30 cm3** |
| 5 | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **6.0 cm3** | **2.5 cm3** | **6.0 cm3** | **6 cm3** | **7 cm3** | **5.5** | **18** | **28 cm3** |
| 6 | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.0** | **2.5 cm3** | **6 cm3** | **6 cm3** | **7 cm3** | **5** | **15** | **30 cm3** |
| 7 | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **6.0 cm3** | **2.5 cm3** | **6 cm3** | **6 cm3** | **6 cm3** | **6** | **15** | **25 cm3** |
| 8 | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **6.0 cm3** | **2.5 cm3** | **6 cm3** | **6 cm3** | **6 cm3** | **5** | **17** | **28 cm3** |
| Average | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **6 cm3** | **2.5 cm3** | **6 cm3** | **6 cm3** | **6 cm3** | **6 cm3** | **16 cm3** | **28 cm3** |

**Average DENSITY** of Object in **g/cm3**

Place the 12 objects in order from least dense to most dense.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Name of Object | **Copper** | **Brass** | **Iron** | **Aluminum** | **Steel** | **Lead**  *(Teacher only)* | **Glass** | **Plastic** | **Wood** | **Rubber** | **Cork** | **Ping Pong Ball** |
| **Average Density of Object** | **10 g/cm3** | **9.3 g/cm3** | **8.6 g/cm3** | **3.0 g/cm3** | **8.1 g/cm3** | **11.7 g/cm3** | **2.4 g/cm3** | **1.5 g/cm3** | **0.7 g/cm3** | **1.6 g/cm3** | **0.3 g/cm3** | **0.08 g/cm3** |