|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | **60.0** | **53.7** | **62.1** | **17.4** | **49.6** | **28.9** | **14.0** | **9.1** | **4.5** | **9.4 g** | **5.6** | **2.6** |
| 2 | **72.5** | **67.3** | **62.0** | **21.6** | **49.0** | **28.9** | **14.0** | **8.9** | **4.5** | **9.4 g** | **5.4** | **2.5** |
| 3 | **No group** |  |  |  |  |  |  |  |  | **9.4 g** |  |  |
| 4 | **72.3** | **67.8** | **62.3** | **21.9** | **48.8** | **23.5** | **13.9** | **9.4** | **3.6** | **9.4 g** | **3.4** | **2.5** |
| 5 | **72.4** | **67.9** | **62.6** | **22.3** | **49.0** | **29.0** | **14.1** | **9.1** | **4.5** | **9.4 g** | **5.6** | **2.3** |
| 6 | **71.5** | **65.3** | **62.4** | **21.5** | **40.9** | **30.7** | **14.0** | **9.0** | **4.0** | **9.4 g** | **5.3** | **2.5** |
| 7 | **72.8** | **67.9** | **62.1** | **21.8** | **49.4** | **30.5** | **14.0** | **9.0** | **4.1** | **9.4 g** | **5.3** | **2.4** |
| 8 | **72.2** | **67.6** | **62.2** | **21.9** | **48.3** | **28.9** | **13.9** | **9.1** | **4.2** | **9.4 g** | **4.0** | **2.4** |
| Average | **72.4 g** | **67.3 g** | **62.2 g** | **21.8 g** | **48.5 g** | **28.6 g** | **14.0 g** | **9.0 g** | **4.3 g** | **9.4 g** | **5.2 g** | **2.5 g** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Group** | **Copper** | **Brass** | **Iron** | **Aluminum** | **Steel** | **Lead***(Teacher only)* | **Glass** | **Plastic** | **Wood** | **Rubber** | **Cork** | **Ping Pong Ball** |
| 1 | **cylinder** |  |  |  | **6 cm3** | **2.5 cm3** | **6 cm3** | **6 cm3** | **7 cm3** | **6 cm3** | **16 cm3** | **28 cm3** |
| 2 | **7.2 cm3** | **7.2** | **7.2** | **7.2** | **6 cm3** | **2.5 cm3** | **6 cm3** | **6 cm3** | **6 cm3** | **6 cm3** | **15 cm3** | **27 cm3** |
| 3 |  |  | **7.2** | **7.2** |  | **2.5 cm3** |  |  |  | **6 cm3** |  |  |
| 4 | **7.2** | **7.2** | **7.2** | **7.2** | ? | **2.5 cm3** | **6 cm3** | **6 cm3** | **6 cm3** | **6 cm3** |  | **28 cm3** |
| 5 | **7.2** | **7.2** | **7.2** | **7.2** | **6 cm3** | **2.5 cm3** | **6.5 cm3** | **6 cm3** | **7 cm3** | **6 cm3** | **18 cm3** | **25 cm3** |
| 6 | **7.2** | **7.2** | **7.2** | **7.2** | **6 cm3** | **2.5 cm3** | **6 cm3** | **6 cm3** | **7 cm3** | **6 cm3** | **15.5 cm3** |  |
| 7 | **7.2** | **7.2** | **7.2** | **7.2** | **6 cm3** | **2.5 cm3** | **6 cm3** | **6 cm3** | **?** | **6 cm3** | **16 cm3** | **30 cm3** |
| 8 | **7.2** | **7.2** | **7.2** | **7.2** | **6 cm3** | **2.5 cm3** | **6 cm3** | **6 cm3** | **7 cm3** | **6 cm3** | **16 cm3** | **27 cm3** |
| **Average** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **7.2 cm3** | **6 cm3** | **2.5 cm3** | **6 cm3** | **6 cm3** | **7 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** | **8.0 g/cm3** | **11.4 g/cm3** | **2.3 g/cm3** | **1.5 g/cm3** | **0.6 g/cm3** | **1.6 g/cm3** | **0.3 g/cm3** | **0.08 g/cm3** |