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| **Fill in the Blanks** | **Density and Pressure Calculations** |

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| --- | --- | --- | --- | --- | --- | --- |
| **Mass** | **Volume** | **Density** |  | **Force** | **Area** | **Pressure** |
| $$500 g$$ | $$200 cm^{3}$$ |  | $$g/cm^{3}$$ |  | $$7 N$$ | $$0.4 m^{2}$$ |  | $$N/m^{2}$$ |
| $$6.2 kg$$ | $0.004 m^{3}$  |  | $$kg/m^{3}$$ |  | $$60 N$$ | $$2.4 m^{2}$$ |  | $$N/m^{2}$$ |
| $$1.6 kg$$ |  | $$2000$$ | $$kg/m^{3}$$ |  |  | $$0.06 m^{2}$$ | $$70$$ | $$N/m^{2}$$ |
|  | $$2.25 cm^{3}$$ | $$1.6$$ | $$g/cm^{3}$$ |  | $$56 N$$ |  | $$32$$ | $$N/m^{2}$$ |
|  | $0.2 m^{3}$  | $$750$$ | $$kg/m^{3}$$ |  |  | $0.001 m^{2}$  | $$3800$$ | $$N/m^{2}$$ |
| $$264 g$$ |  | $$0.88$$ | $$g/cm^{3}$$ |  | $$99 N$$ |  | $$450$$ | $$N/m^{2}$$ |
| $$0.24 kg$$ | $$400 cm^{3}$$ |  | $$g/cm^{3}$$ |  | $$85 N$$ | $$20000 cm^{2}$$ |  | $$N/m^{2}$$ |
| $$56000 g$$ |  | $$800$$ | $$kg/m^{3}$$ |  |  | $$80000 cm^{2}$$ | $$12.75$$ | $$N/m^{2}$$ |
|  | $$400000 cm^{3}$$ | $$2180$$ | $$kg/m^{3}$$ |  | $$174 N$$ | $$725 cm^{2}$$ |  | $$N/m^{2}$$ |
| $$8000 g$$ | $$0.0025 m^{3}$$ |  | $$g/cm^{3}$$ |  | $$135 N$$ | $$5000000 mm^{2}$$ |  | $$N/m^{2}$$ |
| $$13.8 kg$$ | $$0.015 m^{3}$$ |  | $$g/cm^{3}$$ |  |  | $$3600 mm^{2}$$ | $$1850$$ | $$N/m^{2}$$ |