**Density and Statistics Practice Sheet**

1. A block of wood has a mass of 12 g and a volume of 50 cm3. Calculate the density

|  |  |  |
| --- | --- | --- |
| **Given** | shown in problem, the given variables | **Picture and Process**Draw picture, count, calculate |
| **Unknowns** | variable to be found |
| **Equation(s)** | with unknowns and given |
| **Solution** |  |

1. A block of metal has a mass of 23 g and a volume of 17 cm3. Calculate the density.

|  |  |  |
| --- | --- | --- |
| **Given** | shown in problem, the given variables | **Picture and Process**Draw picture, count, calculate |
| **Unknowns** | variable to be found |
| **Equation(s)** | with unknowns and give |
| **Solution** |  |

1. A cube of plastic has a mass of 17 g and a side length of 3 cm. Calculate the density.

|  |  |  |
| --- | --- | --- |
| **Given** | shown in problem, the given variables | **Picture and Process**Draw picture, count, calculate |
| **Unknowns** | variable to be found |
| **Equation(s)** | with unknowns and given |
| **Solution** |  |

1. A cube of glass has a mass of 35 g and a side length of 7 cm. Calculate the density.

|  |  |  |
| --- | --- | --- |
| **Given** | shown in problem, the given variables | **Picture and Process**Draw picture, count, calculate |
| **Unknowns** | variable to be found |
| **Equation(s)** | with unknowns and given |
| **Solution** |  |

1. A rectangular prism has a mass of 80 g and a side lengths of 7 cm, 13 cm and19 cm. Calculate the density.

|  |  |  |
| --- | --- | --- |
| **Given** | shown in problem, the given variables | **Picture and Process**Draw picture, count, calculate |
| **Unknowns** | variable to be found |
| **Equation(s)** | with unknowns and given |
| **Solution** |  |

1. A right triangular prism has a mass of 103 g, leg lengths of 4 cm and 9 cm, and a length of 17 cm. Calculate the density.

|  |  |  |
| --- | --- | --- |
| **Given** | shown in problem, the given variables | **Picture and Process**Draw picture, count, calculate |
| **Unknowns** | variable to be found |
| **Equation(s)** | with unknowns and given |
| **Solution** |  |

1. Measurements of 0.43, 0.44, 0.42. 0.42, 0.43, 0.41, 0.41 cm are collected. Calculate the mean, median, mode and standard deviation for this data set.

|  |  |  |
| --- | --- | --- |
| **Given** | shown in problem, the given variables | **Picture and Process**Draw picture, count, calculate |
| **Unknowns** | variable to be found |
| **Equation(s)** | with unknowns and given |
| **Solution** |  |

|  |  |  |
| --- | --- | --- |
| **Given** | shown in problem, the given variables | **Picture and Process**Draw picture, count, calculate |
| **Unknowns** | variable to be found |
| **Equation(s)** | with unknowns and given |
| **Solution** |  |

1. Measurements of 0.061, 0.019, 0.021. 0.022, 0.018, 0.018, 0.019 cm are collected. Calculate the mean, median, mode and standard deviation for this data set.